

Healthcare

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Preliminary Site Preparation Support Document

The equipment components shown in this drawing package are based on the current proposed equipment configuration and are subject to change if modifications are made to the configuration at the time of final equipment purchase.

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Project

Project Allura FD20 Ceiling

Albuquerque, NM

-Room 506

Philips Contacts

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 800 500 5440

Email: michael.freund@

Project Details

Project Details
Drawing Number

N-WES100655 C
Date Drawn: 1/28/2011

Order: None

C1

Order: None	Drawn By: Cho, Calvin	-Room 506
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THE DRAWINGS AND RELATED INSTRUCTIONS PROVIDED BY PHILIPS ARE ACCEPTABLE FOR USE BY THE HOSPITAL'S ARCHITECT OR ENGINEER TO USE FOR THE DEVELOPMENT OF CONSTRUCTION DOCUMENTS.

(00.0)

(03.0)

(08.1)

AN

Equipment Legend					
<div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div><div>G</div><div></div></div> <div><div>Furnished and installed by Philips</div><div>Furnished by customer/contractor and installed by customer/contractor</div><div>Installed by customer/contractor</div><div>Furnished by Philips and installed by contractor</div><div>Existing</div><div>Future</div><div>Optional item furnished by Philips</div></div>					
	Equipment Designation			Detail Sheet	
		Description	Weight (lbs)	Heat Load (btu/hr)	
A	SP	Clea Stand with Short Arm	2535	1195	AD1
A	MSA	Angio Diagnost 7 with Pivot	1693	375	AD1
A	MG	Velara Generator 40E Cabinet	510	2971	AD2
A	MP	Peripheral 40E Cabinet	510	2049	AD2
D	PBK	PDU 4000/UPS	860	2450	AD2
A	MA	Mains 40E Cabinet	826	5464	AD2
A	CY	Viewing/Control	126	567	AD2
A	DB	Documentation Box - Mounted on Wheels (Final location to be coordinated with custimer and/or local Philips Service.)	176	-	AD3
A	ATY	Exam Room Auxiliary Box	7	1.7	AD3
A	TV	Six LCD Monitor Suspension with Exam Lamp	665	1020	AD3
A	MAV	Mavig Ceiling Track w/ Radiation Shield	167	350	AD4
A	IH	Interventional Hardware	73	2424	AD4
G	IVUS	s5i Imaging System (Volcano IVUS) (Transformer and CPU located under counter)	82	-	AD6
G	SV	s5i Imaging System (Junction Box)	-	-	AD6
A	XIM	Xper Information Management	170	495	AD5
A	FE	Front End / Patient Care Monitor	25	70	AD5
A	IUPS	Interventional UPS	45.2	68	AD5
A	NS	Nurse Station	25	495	AD5
G	INJ	ACIST Injector on Pedestal	-	5118	AD5
A	VB1	Video Connection Box	2	-	AD3
	~				
A	VB4	Video Connection Box	2	-	AD3
A	EPN	EP Navigator (CPU located under counter)	73	2424	AD4
A	XW	Xcelera Workstation	110	716	AD6
G	IC	Injector Room Console	43	160	AD5
G	RIC	Injector Remote Panel	5	160	AD5
G	INJ	Medrad Universal T-Rail Bracket for Injector Head (Not shown on plan)	-	-	

Project

Allura FD20 Ceiling

VA, Albuquerque

Albuquerque, NM

-Room 506

Philips Contacts

Project Manager: Freund, Michael

Contact Number: 303-589-5113

Email: michael.freund@philips.com

Drawn By: Cho, Calvin

Project Details

Drawing Number

N-WES100655 C

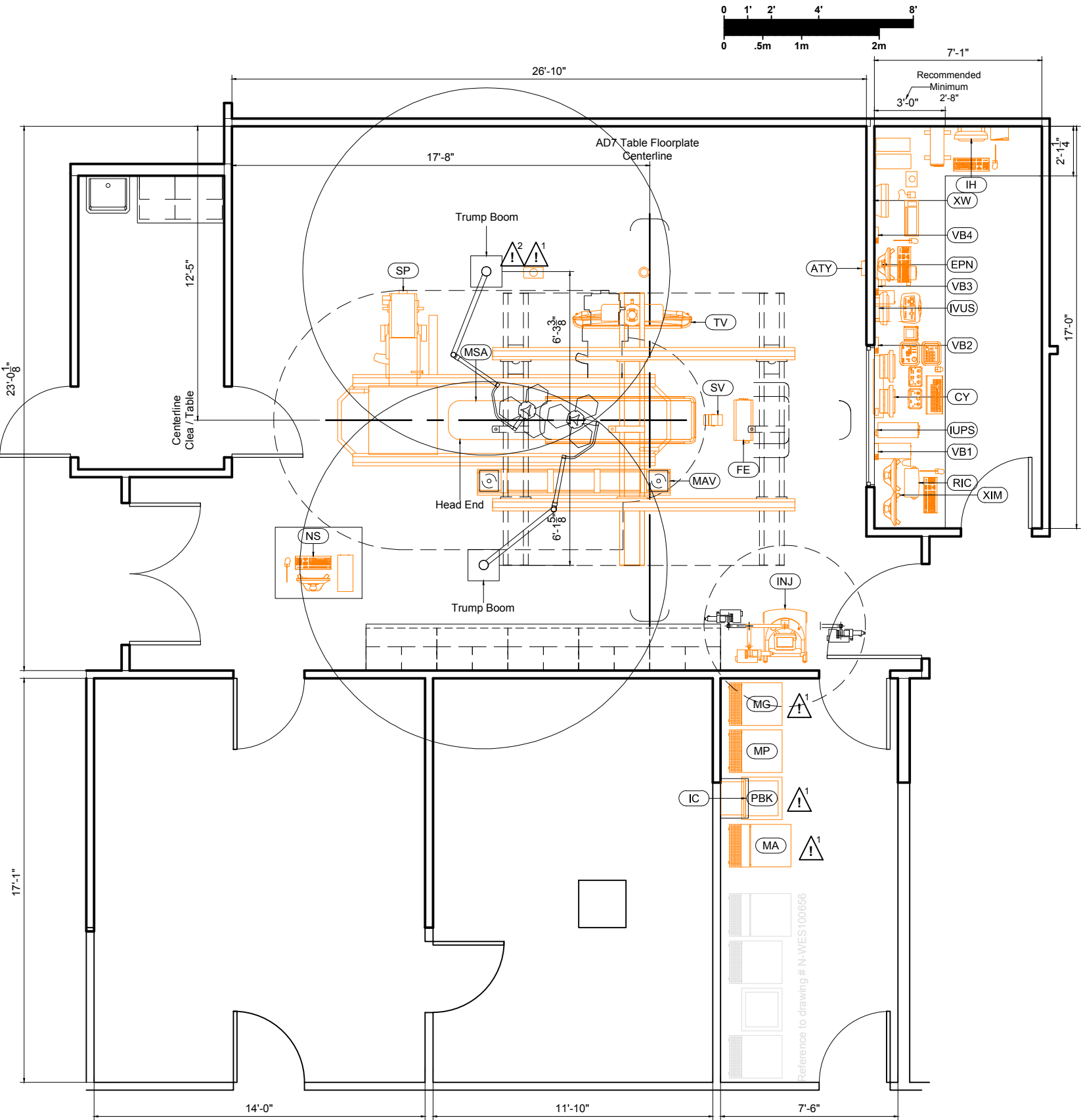
Date Drawn: 1/28/2011

Quote: 1-R5TFEL Rev.3

Order: None

AL





Equipment Layout

Required Ceiling Height : 8' - 10 ⁵/₁₆" , + ¹/₄ , -0" (2700mm, +6, -0)
Ceiling Heights other than recommended may impact equipment functionality, consult with local Philips Service.



Planning Issues and Considerations

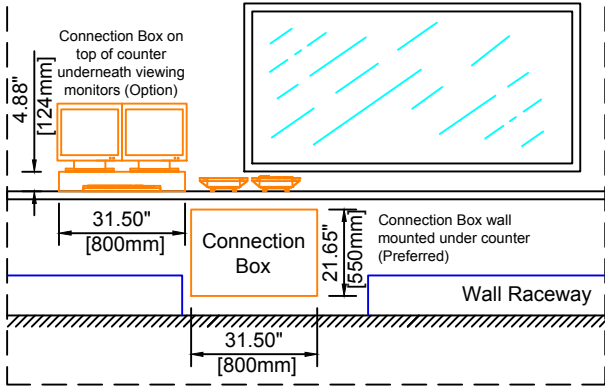
- Cable run(s) from SP to MG, MP and MA must be able to take the most direct route. (Maximum cable length = MG=28.5', MP=33' and MA=36') (With extension cables, MG can be extended 13'=41.5' max)
- The location and orientation of the system may require special ordering of a longer set of cables (Equipment Cabinets to "C"-arm). Verify availability of longer cables with Order Management.

General Notes

* Counters and cabinetry shown to be supplied and installed by customer.

Connection Box (CY) Mounting Options

Not Site Specific
See SD2 Sheet for details



(DB)

Final location to be determined with customer.
Coordinate with local Philips Service.

Project

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Albuquerque, NM
-Room 506

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Email: michael.freund@philips.com

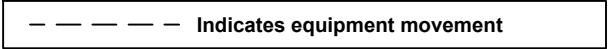
Drawn By: Cho, Calvin

Project Details

Drawing Number
N-WES100655 C
Date Drawn: 1/28/2011
Quote: 1-R5TFEL Rev.3
Order: None

A1

PHILIPS



(07.0)



(07.0)

(07.0)



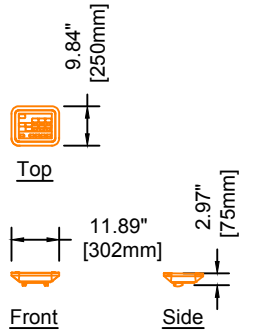
Project

Philips Contacts

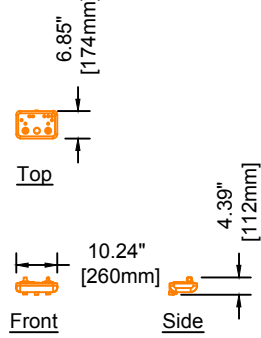
Drawn By: Cho, Calvin

Project Details

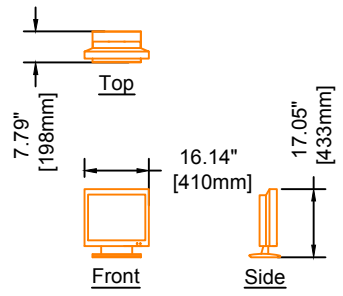
AD1



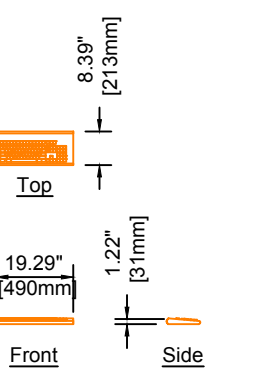
XPER Module



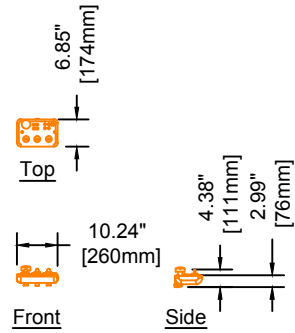
Imaging cardio T.S.O (Optional)



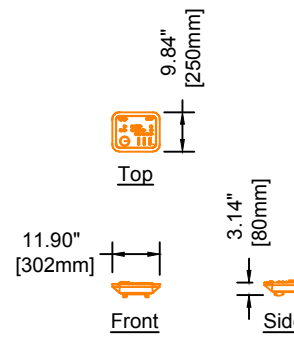
LCD Monitor (Optional)



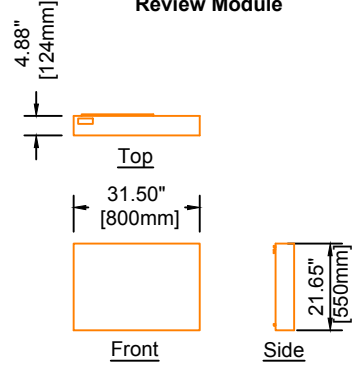
Keyboard



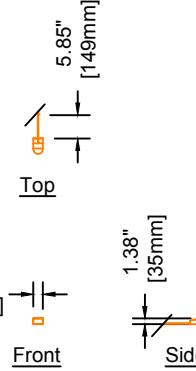
Geometry T.S.O. (Optional)



Review Module

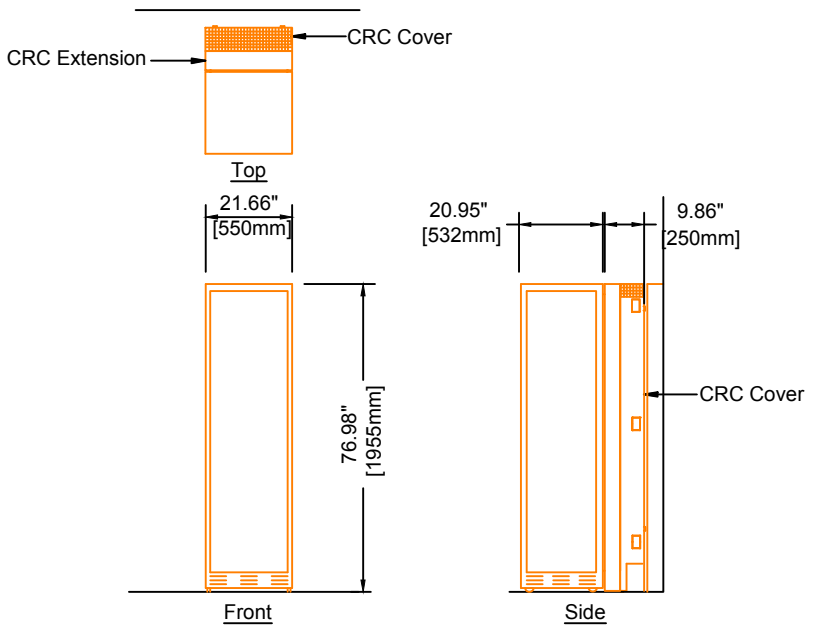


Connection Box
(See SD2 for mounting options)



Mouse

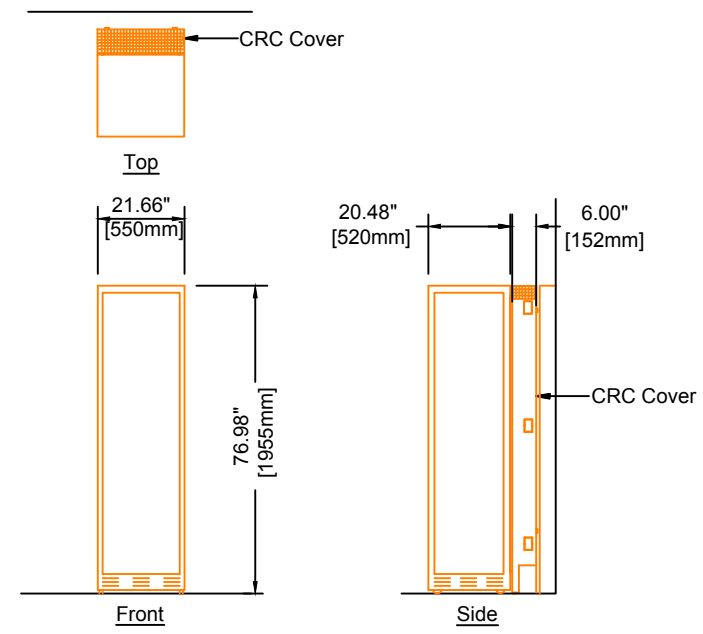
(08.0)		
CY Viewing/Control (All Components)		
Weight	126 lbs	(57 kg)
Heat Dissipation	567 Btu/hr	(143 kcal/hr)



The CRC cover must be attached to the 40E rack only, not to the wall.

Acoustic noise level: <= 48 dB(A) @ 1 meter in front of the rack and 1 meter high. (1 meter = 3.28')

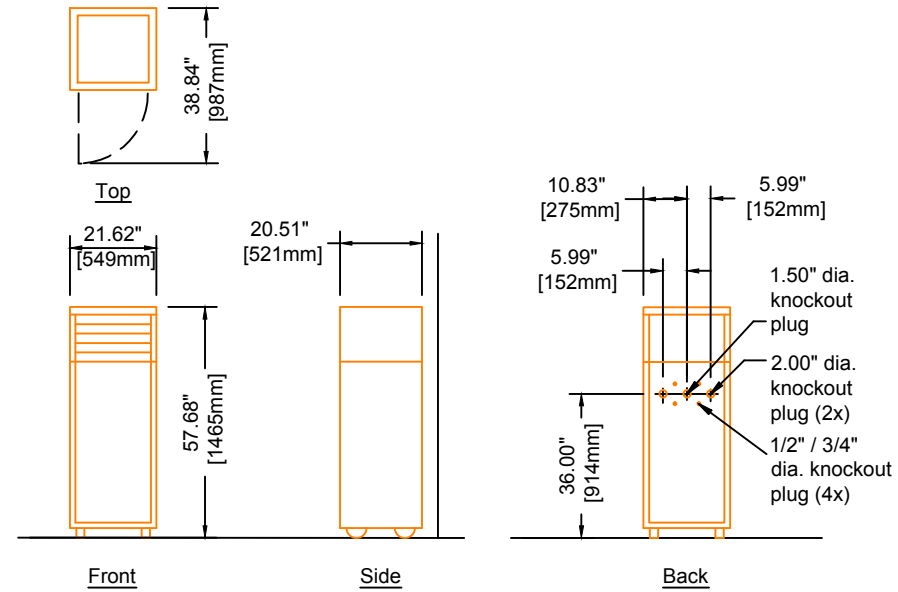
(10.0)		
MA	Mains 40E Cabinet	
Weight	826 lbs	(375 kg)
Heat Dissipation	5464 Btu/hr	(1377 kcal/hr)



The CRC cover must be attached to the 40E rack only, not to the wall.

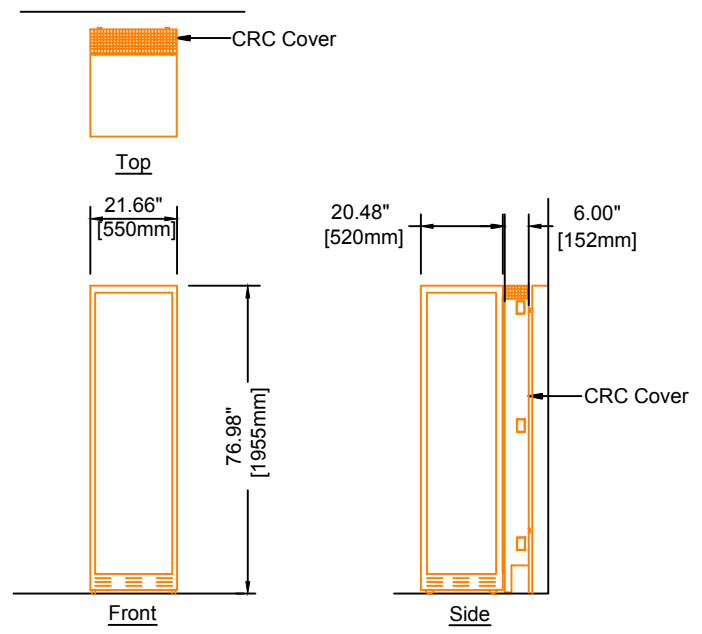
Acoustic noise level: <= 65 dB(A) @ 1 meter in front of the rack and 1 meter high. (1 meter = 3.28')

(08.0)		
MP	Peripheral 40E Cabinet	
Weight	510 lbs	(232 kg)
Heat Dissipation	2049 Btu/hr	(516 kcal/hr)



Acoustic noise level: <= 50 dB(A) @ 1 meter in front of the rack and 1 meter high. (1 meter = 3.28')

(08.0)		
PBK	PDU 4000/UPS	
Weight	860 lbs	(391 kg)
Heat Dissipation	2450 Btu/hr	(617 kcal/hr)



The CRC cover must be attached to the 40E rack only, not to the wall.

Acoustic noise level: <= 55 dB(A) @ 1 meter in front of the rack and 1 meter high. (1 meter = 3.28')

(08.0)		
MG	Velara Generator 40E Cabinet	
Weight	510 lbs	(232 kg)
Heat Dissipation	2971 Btu/hr	(749 kcal/hr)

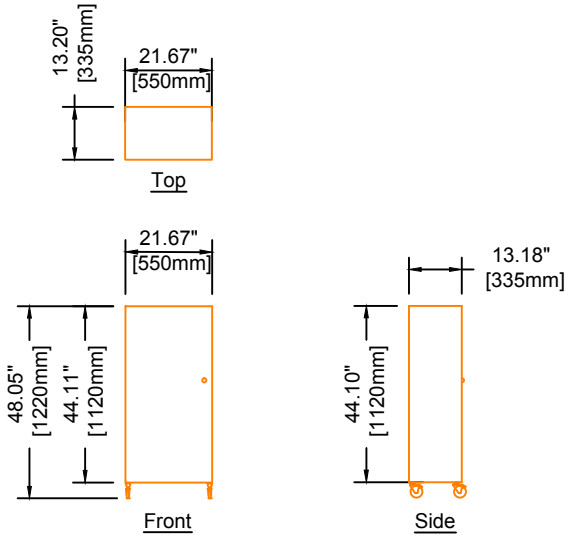
Project
Allura FD20 Ceiling
VA, Albuquerque
Albuquerque, NM
-Room 506

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com

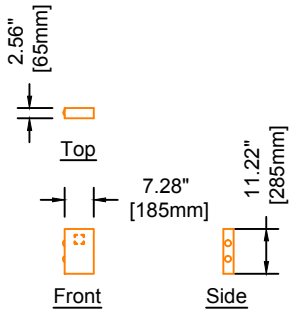
Drawn By: Cho, Calvin

Project Details
Drawing Number
N-WES100655 C
Date Drawn: 1/28/2011
Quote: 1-R5TFEL Rev.3
Order: None

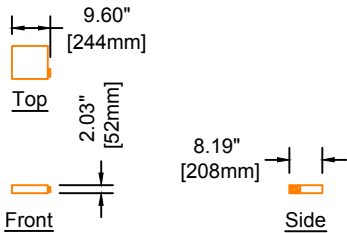
AD2



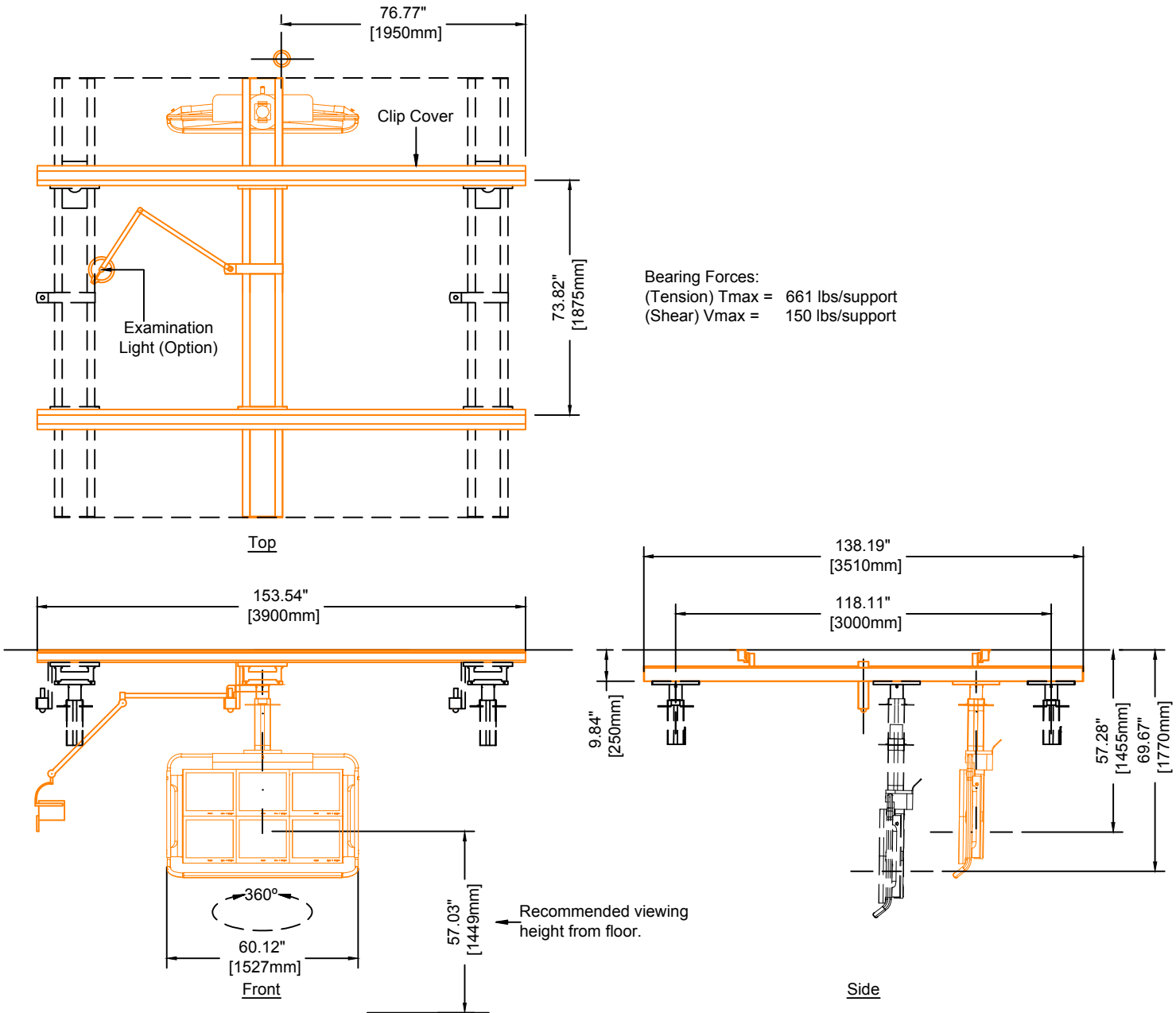
(08.0)		
DB	Documentation Box	
Weight	176 lbs	(45 kg)
Heat Dissipation	0 Btu/hr	(0 kcal/hr)



(08.0)		
ATY	Auxiliary Box	
Weight	7 lbs	(3 kg)
Heat Dissipation	1.7 Btu/hr	(0.47 kcal/hr)

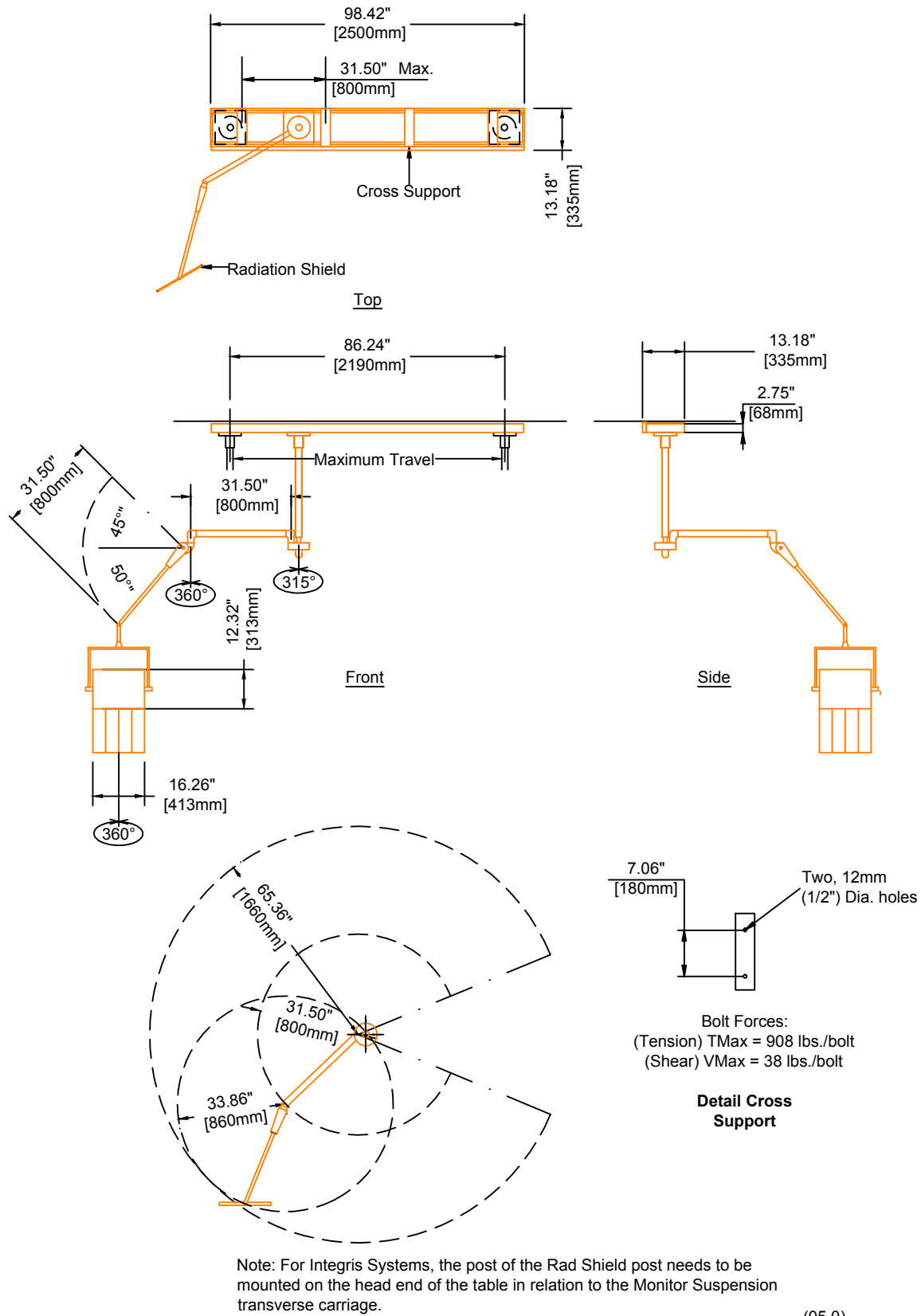


(08.0)		
VB1 ~ VB3	Video Connection Box	
Weight	2 lbs	(0.9 kg)
Heat Dissipation	- Btu/hr	(- kcal/hr)



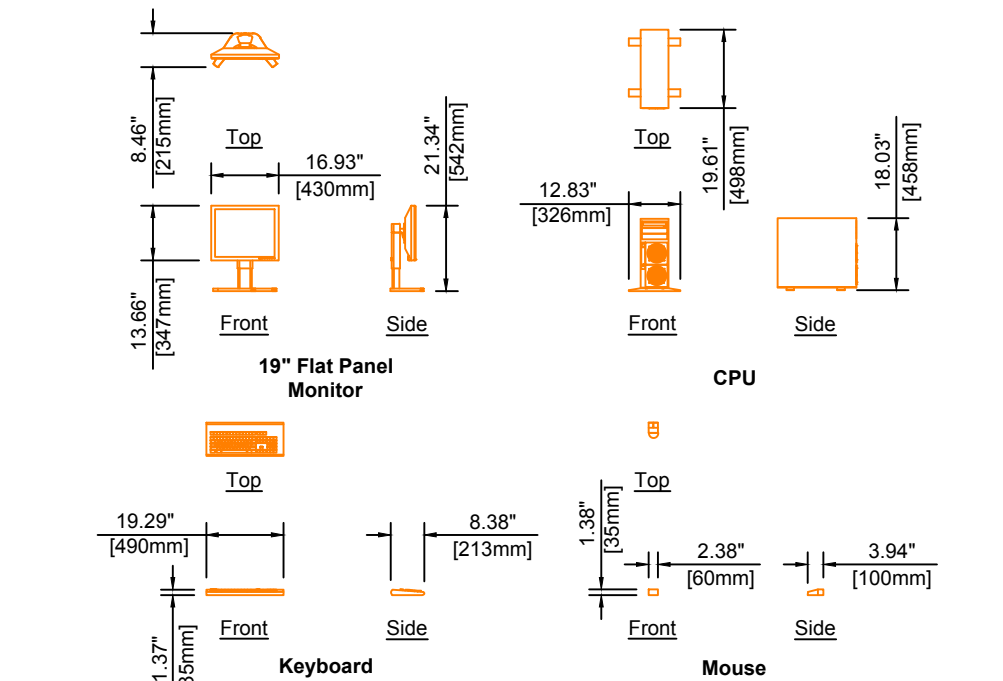
For swing labs, 2700mm long ceiling rails are delivered. Maximum longitudinal column travel = 2100mm.
Weight shown is total weight including monitors, suspension, cabling and options.

(03.0)		
TV	Six LCD Monitor Suspension	
Weight	665 lbs	(288.5 kg)
Heat Dissipation	1020 Btu/hr	(258 kcal/hr)



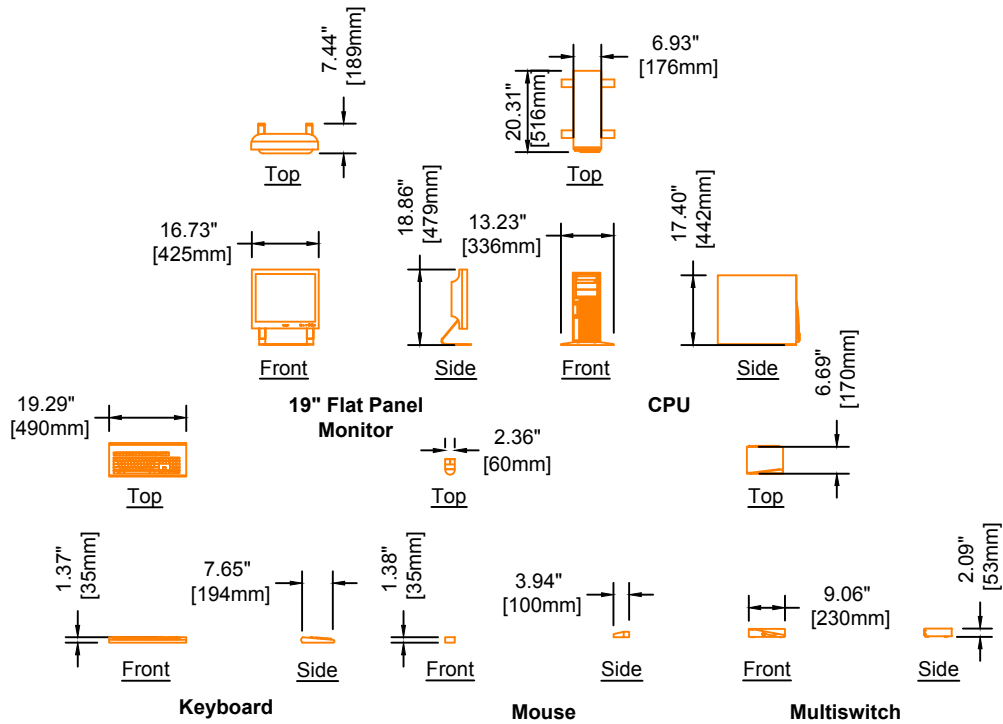
C4	MAV	Mavig Ceiling Track	
	Weight	167 lbs	(76 kg)
	Heat Dissipation	350 Btu/hr	(88 kcal/hr)

(05.0)



EPN	EP Navigator	
Weight	73 lbs	(33 kg)
Heat Dissipation	2424 Btu/hr	(611 kcal/hr)

(08.0)



IH	Interventional Hardware (Flat Monitor)	
Weight	73 lbs	(33 kg)
Heat Dissipation	2,424 Btu/hr	(611 kcal/hr)

(08.0)

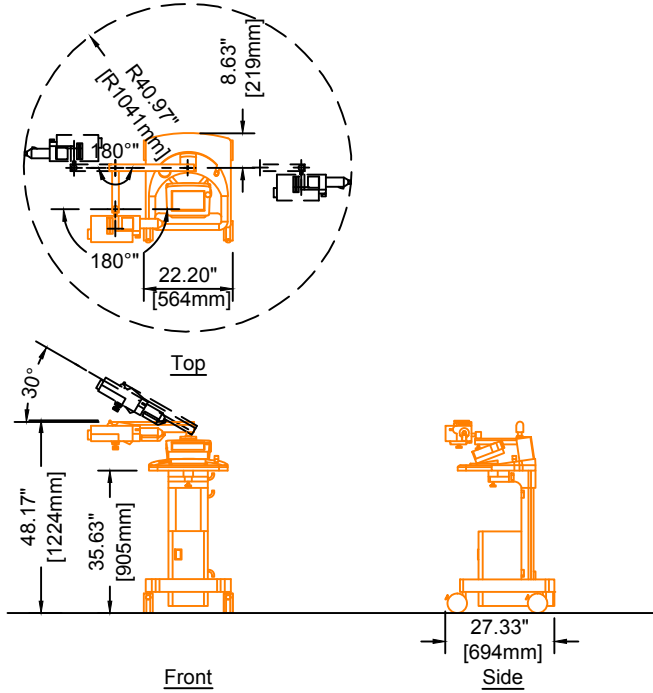
Project
Allura FD20 Ceiling
VA, Albuquerque
Albuquerque, NM
-Room 506

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com

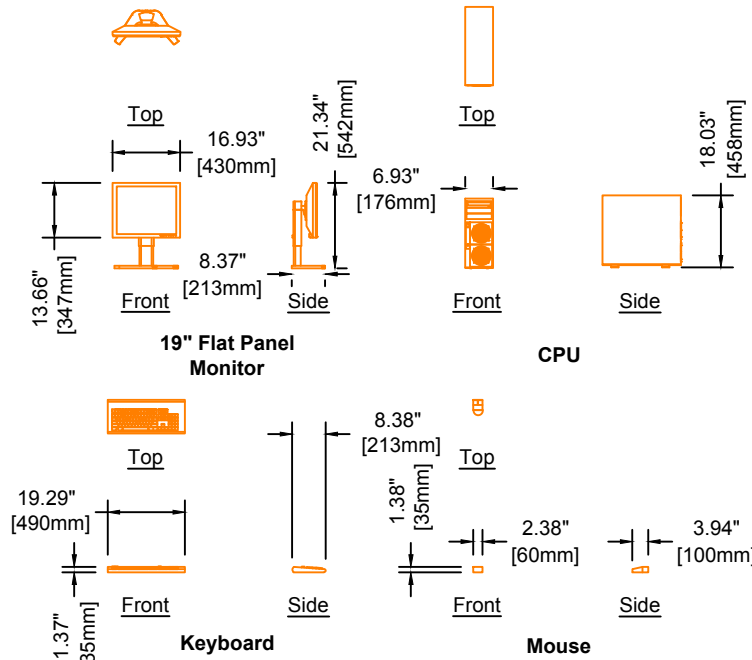
Drawn By: Cho, Calvin

Project Details
Drawing Number
N-WES100655 C
Date Drawn: 1/28/2011
Quote: 1-R5TFEL Rev.3
Order: None

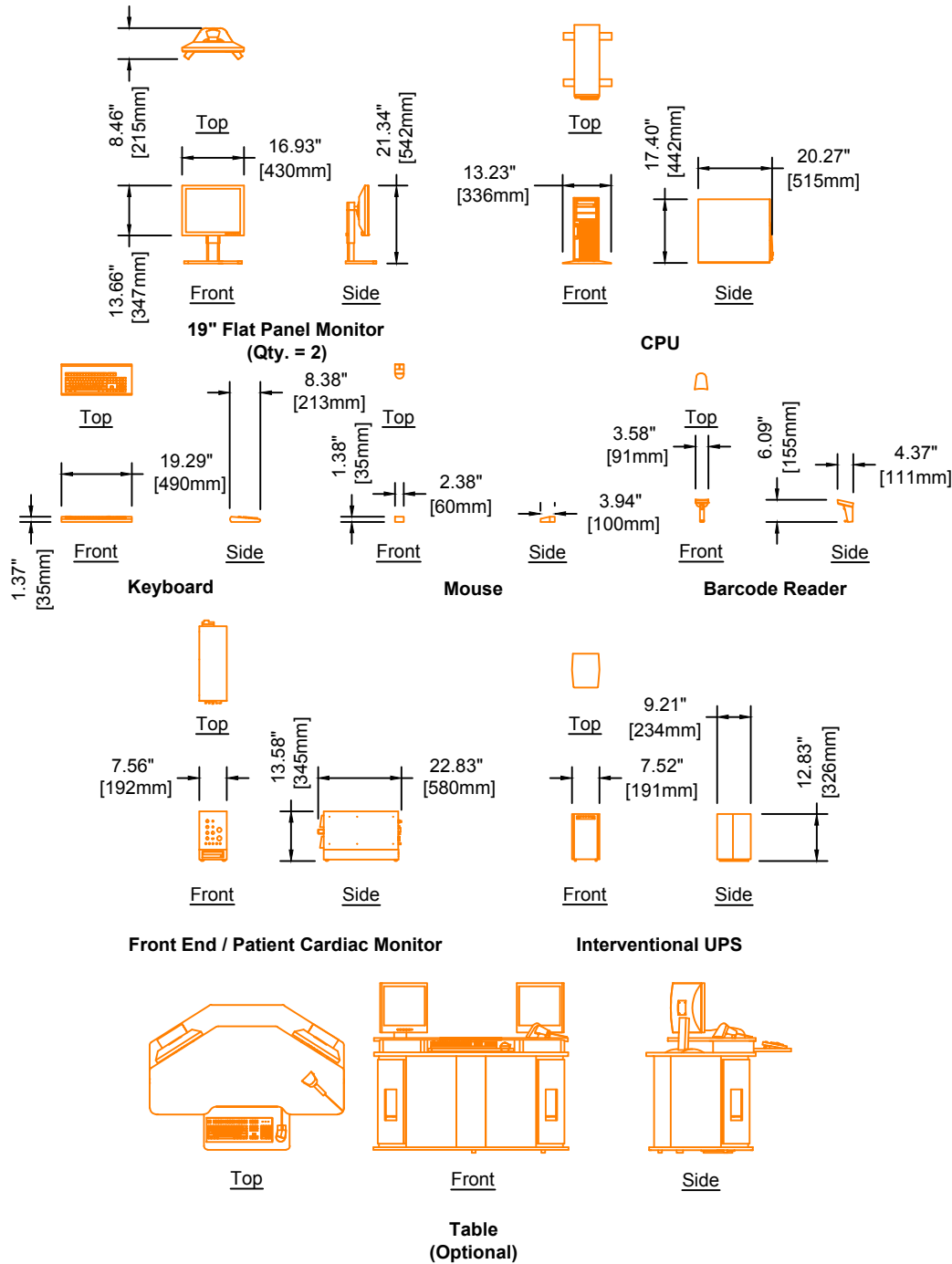
AD4



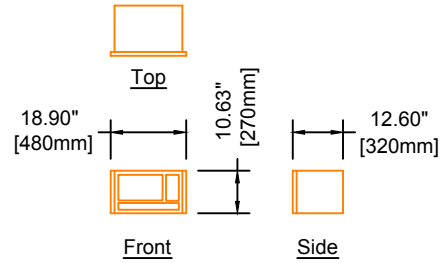
INJ			ACIST Injector on Pedestal		
Weight		- lbs		(- kg)	
Heat Dissipation		5118 Btu/hr		(1290 kcal/hr)	



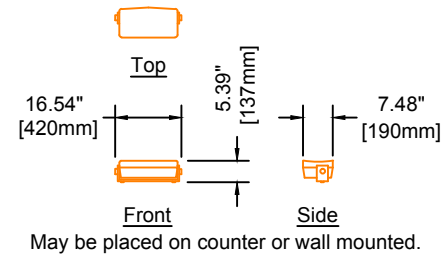
NS		Nurse Station	
Weight	25 lbs	(12 kg)	
Heat Dissipation	495 Btu/hr	(125 kcal/hr)	



XIM FE IUPS			Xper Information Management		(08.0)	
Weight		70 lbs		(32 kg)		
Weight (with Table)		170 lbs		(78 kg)		
Heat Dissipation		495 Btu/hr		(125 kcal/hr)		



IC	Injector Room Console	
Weight	43 lbs	(20 kg)
Heat Dissipation	160 Btu/hr	(40 kcal/hr)



RIC	Injector Remote Panel	
Weight	5 lbs	(2 kg)
Heat Dissipation	160 Btu/hr	(40 kcal/hr)

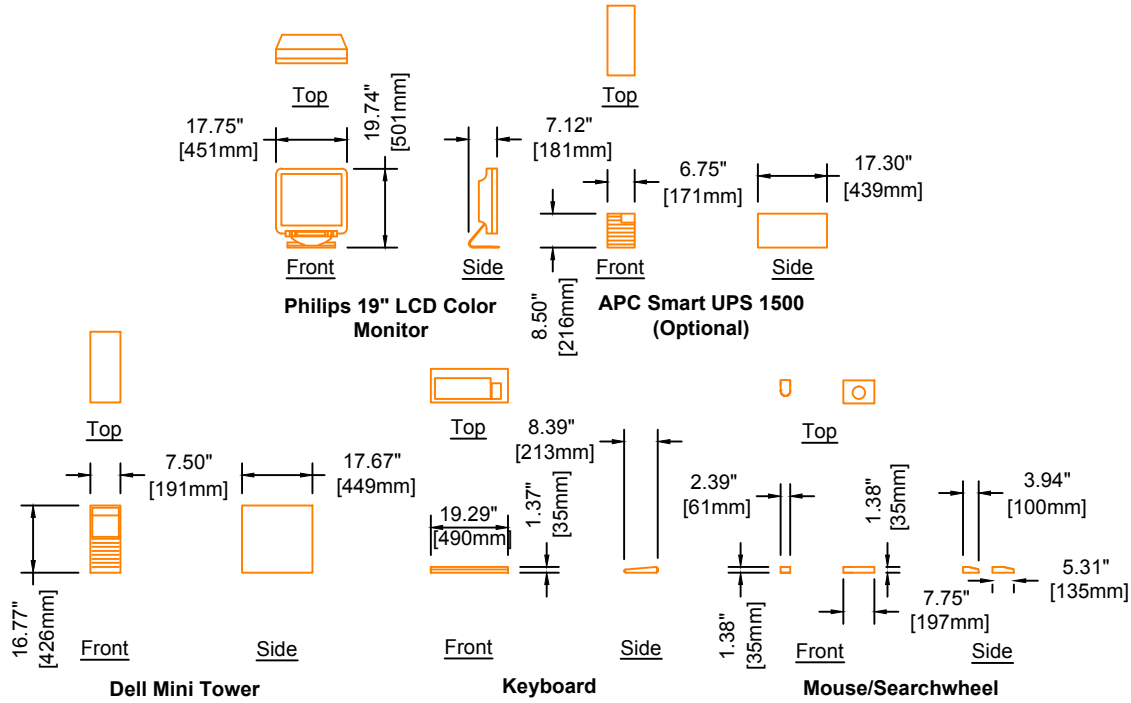
Project
Allura FD20 Ceiling
VA, Albuquerque
Albuquerque, NM
-Room 506

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com

Drawn By: Cho, Calvin

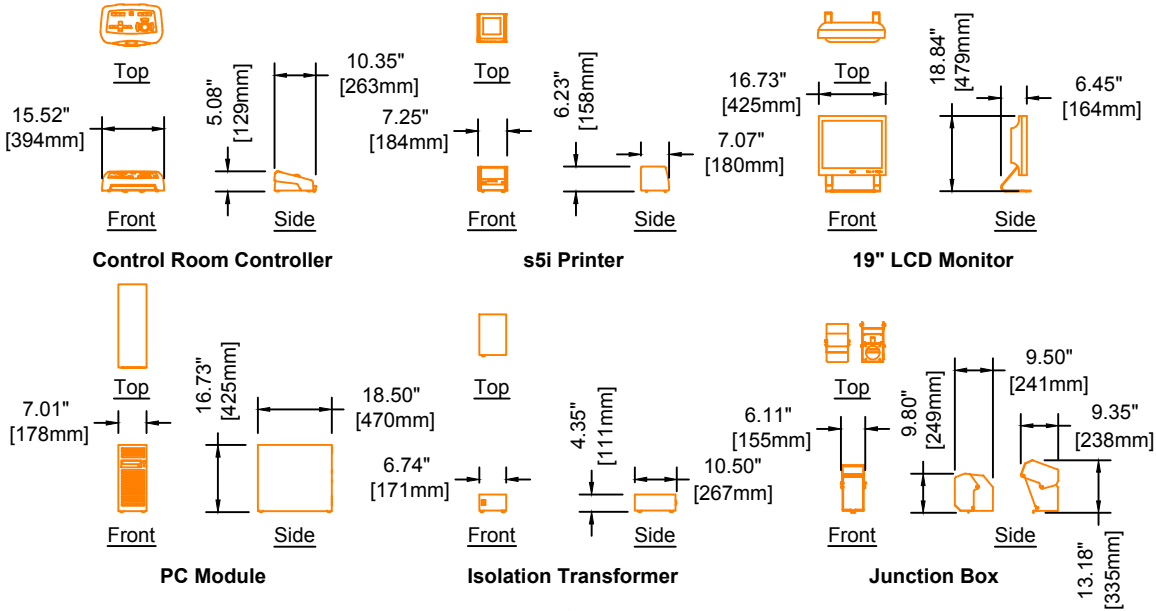
Project Details
Drawing Number
N-WES100655 C
Date Drawn: 1/28/2011
Quote: 1-R5TFEL Rev.3
Order: None

AD5



Weight shown is for all components.

(08.0)		
XW		
Xcelera Workstation		
Weight	110 lbs	(50 kg)
Heat Dissipation	716 Btu/hr	(181 kcal/hr)



Weight shown is for all components.

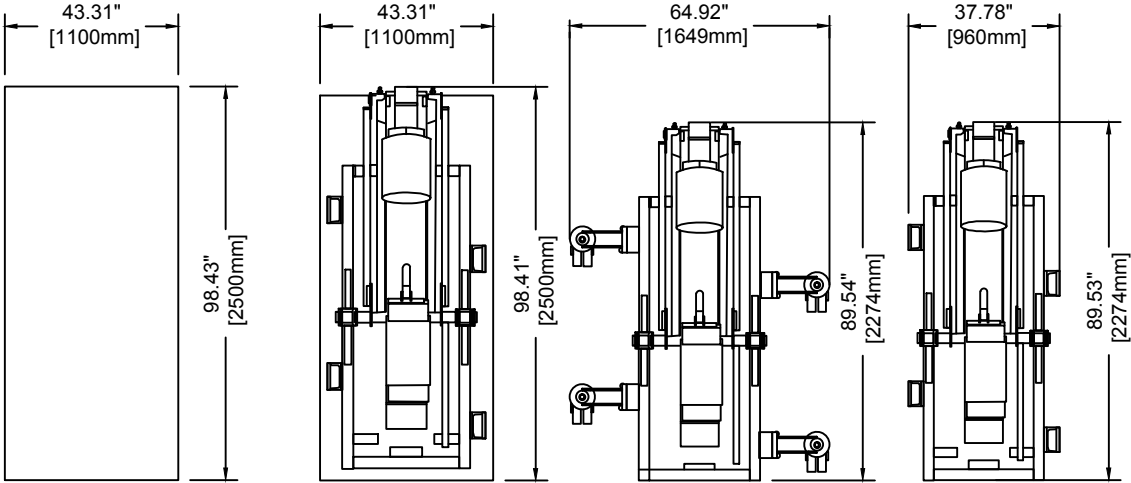
(08.0)		
IVUS		
s5i Imaging System (Volcano IVUS Workstation)		
Weight	82 lbs	(37 kg)
Heat Dissipation	- Btu/hr	(- kcal/hr)
SV		
s5i Imaging System (Junction Box)		
Weight	- lbs	(- kg)
Heat Dissipation	- Btu/hr	(- kcal/hr)

Project Details Drawing Number: N-WES100655 C Date Drawn: 1/28/2011 Quote: 1-R5TFEL Rev.3 Order: None		Philips Contacts Project Manager: Freund, Michael Contact Number: 303-589-5113 Email: michael.freund@philips.com Drawn By: Cho, Calvin	Project Allura FD20 Ceiling VA, Albuquerque Albuquerque, NM -Room 506
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AD6

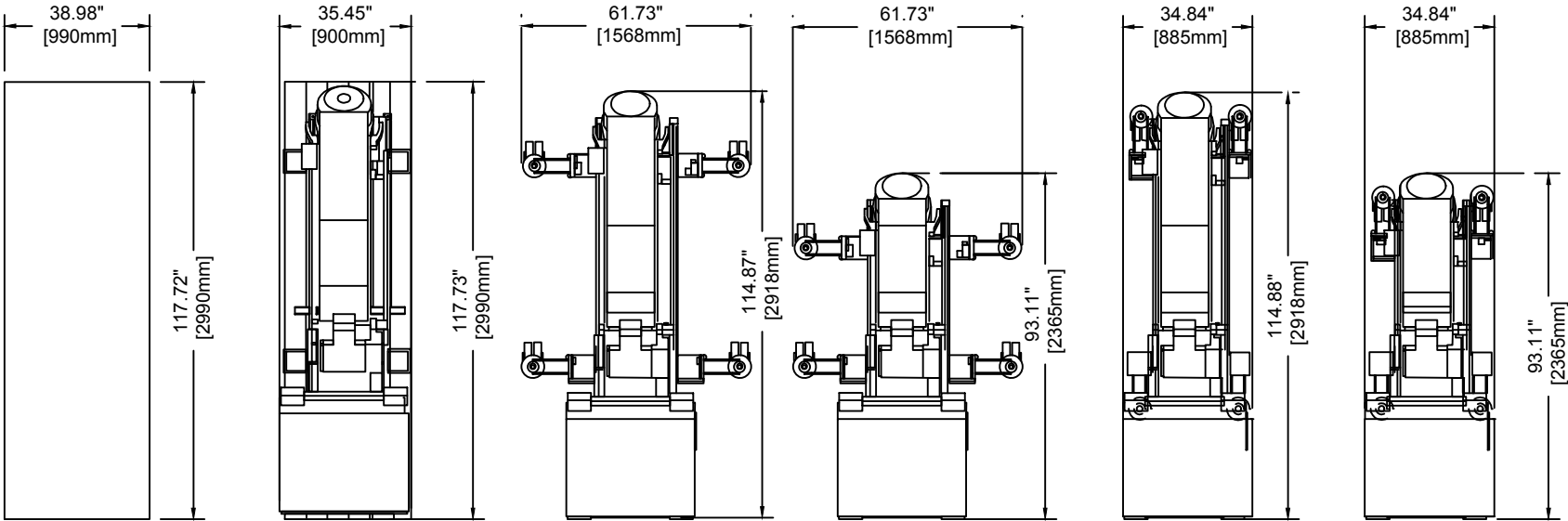
PHILIPS

Detail - Poly Clea Ceiling (C-ARM) Transport Details



Transport Possibilities				
	Crate	Pallet	Klick Wheels Wide	Skateboards
Height	77.95" (1980mm)	76.22" (1936mm)	69.02" (1753mm)	77.76" (1975mm)
Weight	2050 lb (930 kg)	1940 lb (880 kg)	2061 lb (935 kg)	1764 lb (800 kg)

Detail - Poly Clea Ceiling (L-ARM) Transport Details



Transport Possibilities						
	Crate	Pallet	Klick Wheels Wide	Klick Wheels Wide Elevator	Klick Wheels Small	Klick Wheels Small Elevator
Height	57.09" (1450mm)	54.80" (1392mm)	49.25" (1251mm)	79.53" (2020mm)	49.25" (1251mm)	79.53" (2020mm)
Weight	2094 lb (950 kg)	1973 lb (895 kg)	1896 lb (860 kg)	1896 lb (860 kg)	1896 lb (860 kg)	1896 lb (860 kg)

PHILIPS

Project

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Albuquerque, NM
-Room 506

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Drawn By: Cho, Calvin

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Order: None

AD7

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10.20.10

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

		<div>Equipment Support Information</div> <div><div><div>1. General</div><div>The customer shall be solely responsible, at its expense, for preparation of the site, including any required structural alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and building codes. The customer shall be solely responsible for obtaining all construction permits from jurisdictional authority.</div></div><div><div>2. Equipment Anchorage</div><div>Philips provides, with this plan and specifications, information relative to equipment size, weight, shape, anchoring hole locations and forces which may be exerted on anchoring fasteners. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of equipment anchoring to floors, wall and/or ceiling of the building. Any anchorage test required by local authority shall be the customer's responsibility. Stud type anchor bolts should not be specified as they hinder equipment removal for service. Consult with Philips service prior to specifying anchor methods.</div></div><div><div>3. Floor Loading and Surface</div><div>Philips provides, with this plan and specifications, information relative to size, weight and shape of floor mounted equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings confirmation of the structural adequacy of the floor upon which the equipment will be placed. Any load test required by local authority, shall be the customer's responsibility. The floor surface upon which Philips equipment is to be placed/anchored shall be flat and level to within plus or minus 1/16 inch (2mm) over a length of 39" (1m).</div></div><div><div>4. Ceiling Support Apparatus</div><div><div>a. Philips provides, with this plan and specifications, information relative to size, weight and shape of ceiling supported equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of structural support apparatus, fasteners and anchorage to which Philips will attach equipment. Any anchorage and/or load test required by local authority shall be the customer's responsibility.</div><div>b. Contractor to clearly mark Philips equipment longitudinal centerline on bottom of each structural support.</div><div>c. The structural support apparatus surface to which Philips equipment is to be attached, shall have horizontal equipment attachment surfaces parallel, square and level to within plus or minus 1/16" per 39" (2mm per meter).</div><div>d. Any drilling and/or tapping of holes required to attach Philips equipment to the structural support apparatus shall be the responsibility of the customer.</div><div>e. Fasteners/anchors (i.e., bolts, spring nuts, lock and flat washers) and strip closures shall be provided by the customer.</div></div><div><div>5. Lighting</div><div>Lighting fixtures shall be placed in such a position that they are not obscured by equipment or its movement, nor shall they interfere with Philips ceiling rails and equipment movement or otherwise adversely affect the equipment. Such lighting fixture locations shall be the sole responsibility of the customer.</div></div><div><div>6. Ceiling Obstructions</div><div>There shall be no obstructions that project below the finished ceiling in the area covered by ceiling suspended equipment travel.</div></div><div><div>7. Seismic Anchorage (For Seismic Zones Only)</div><div>All seismic anchorage hardware, including brackets, backing plates, bolts, etc., shall be supplied and installed by the customer/contractor unless otherwise specified within the support legend on this sheet. Installation of electronic cabinets to meet seismic anchorage requirements must be accomplished using flush mounted expansion type anchor/bolt systems to facilitate the removal of a cabinet for maintenance. Do not use threaded rod/adhesive anchor systems. Consult with Philips regarding any anchor system issues.</div></div><div><div>8. Floor Obstructions/ Floor Coverings</div><div>There shall be no obstructions on the floor (sliding door tracks, etc.) in front of the Philips technical cabinets. Floor must be clear to allow cabinets to be pulled away from the wall for service. Contractor to verify with Philips the preferred floor covering installation method.</div></div><div><div>9. Safety Factors</div><div>In a worst case situation the dynamic bolt force of a floor or ceiling must be multiplied by factor 4. (static bolt force of the ceiling must be multiplied by factor 8). All safety factors are included in the bearing force values in sheet SD1.</div></div><div><div>10. Stiffness Requirements of Ceiling</div><div>stiffness: 10,000,000 Newton/meter - 57.1 klb/in stiffness: 20,000,000 Newtonmeter/Rad - 177615 klbin/Rad The maximum deflection on the Philips rails must not exceed 1mm (0.04") caused by the static load (weight) of the ceiling stand.</div></div></div></div>	
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Project Details	Drawing Number N-WES100655 C Date Drawn: 1/28/2011 Quote: 1-R5TFEL Rev.3 Order: None	Philips Contacts Project Manager: Freund, Michael Contact Number: 303-589-5113 Email: michael.freund@philips.com Drawn By: Cho, Calvin	Project Allura FD20 Ceiling VA, Albuquerque Albuquerque, NM -Room 506

SN

PHILIPS

Customer/Contractor shall recommend and/or provide equipment anchoring systems (I.E. "Hilti", "Redhead", etc.) based upon specified "pull" forces (See sheet SD1) and wall/ceiling/floor compositions.

See S1 for Floor & Wall Support Layout.

See S2 for Ceiling Support Layout.

Floor & Wall Support Legend			
A B C D E F G	Furnished and installed by Philips		
	Furnished by customer/contractor and installed by customer/contractor		
	Installed by customer/contractor		
	Furnished by Philips and installed by contractor		
	Existing		
	Future		
	Optional		
		Item Number	Detail Sheet
Description			
D	F1	AD7 Universal Floorplate	SD1
C	F2	Connection Box Anchorage	SD2

Ceiling Support Legend			
A B C D E F G	Furnished and installed by Philips		
	Furnished by customer/contractor and installed by customer/contractor		
	Installed by customer/contractor		
	Furnished by Philips and installed by contractor		
	Existing		
	Future		
	Optional		
		Item Number	Detail Sheet
Description			
A	C1	2 - Philips Clea Rails	SD1 SD2
A	C2	2 - Philips Monitor Equipment Rails	SD2
B	C3	Unistrut (P1001 or equal) - Mounted Flush with Finished Ceiling	SD2
A	C4	Mavig Ceiling Track	AD4

Project

Allura FD20 Ceiling

Philips Contacts

Project Manager: Freund, Michael

Contact Number: 303-589-5113

Email: michael.freund@philips.com

Drawn By: Cho, Calvin

Project Details

Drawing Number

N-WES100655 C

Date Drawn: 1/28/2011

Quote: 1-R5TFEL Rev.3

Order: None

SL



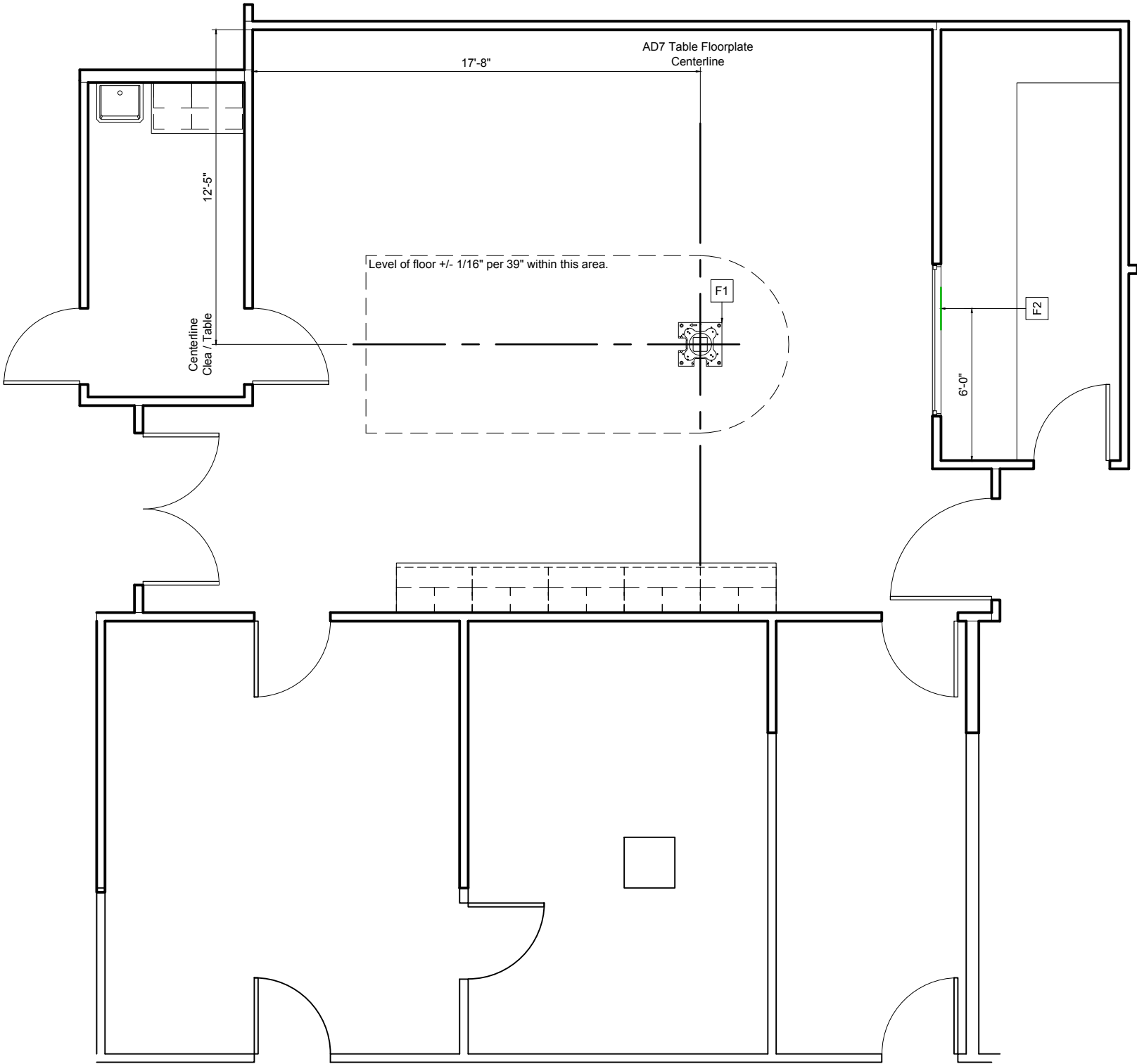
Floor & Wall Support Layout

Required Ceiling Height : 8' - 10 ⁵/₁₆" , + ¹/₄ , -0" (2700mm, +6, -0)

Ceiling Heights other than recommended may impact equipment functionality, consult with local Philips Service.



Refer to Floor/Wall Support Legend - Sheet SL



S1

Project Details

Drawing Number

N-WES100655 C

Date Drawn: 1/28/2011

Quote: 1-R5TFEL Rev.3

Order: None

Philips Contacts

Project Manager: Freund, Michael

Contact Number: 303-589-5113

Email: michael.freund@philips.com

Drawn By: Cho, Calvin

Project

Allura FD20 Ceiling

VA, Albuquerque

Albuquerque, NM

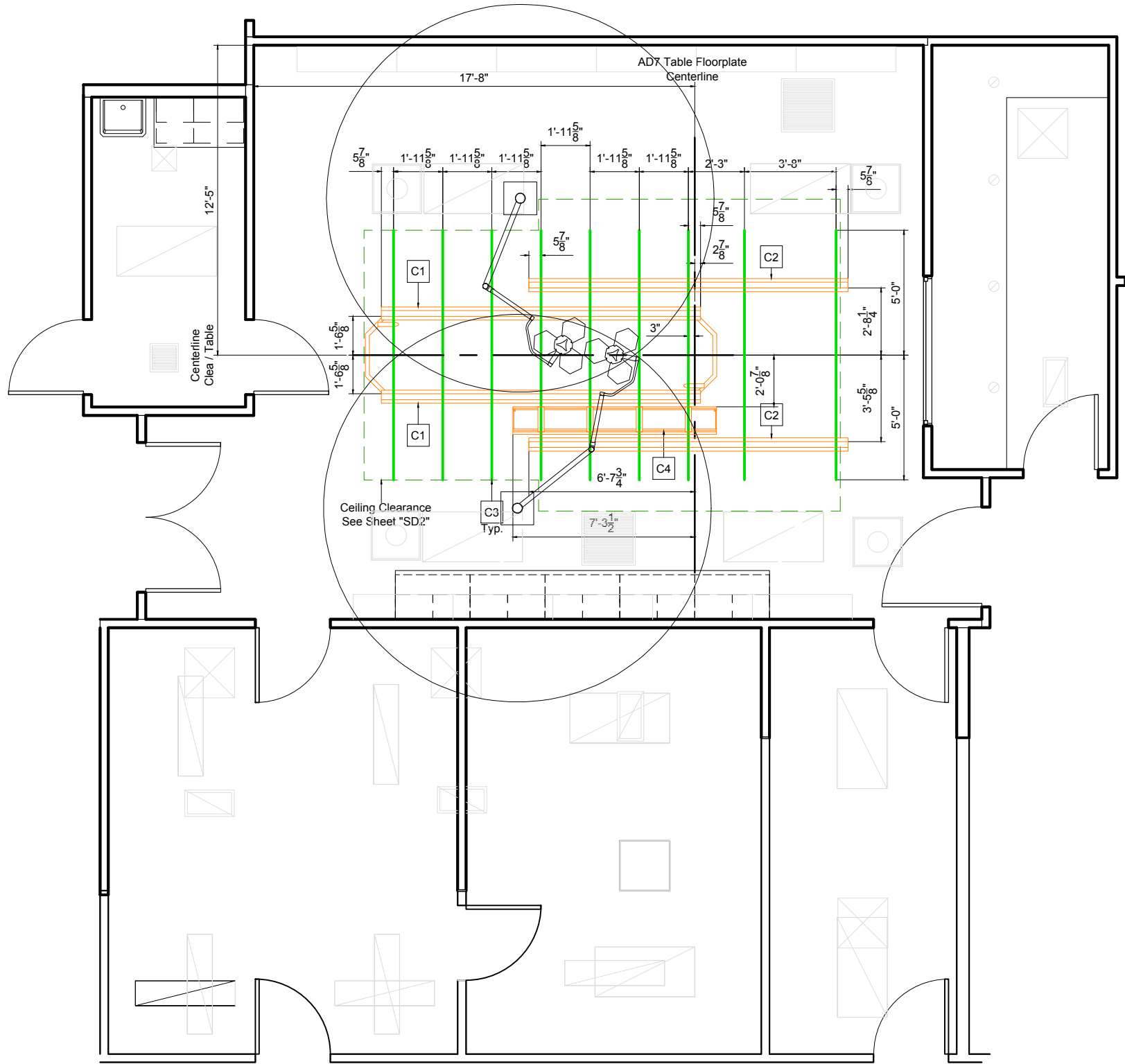
-Room 506

Ceiling Support Layout

Required Ceiling Height : 8' - 10 ⁵/₁₆" , + ¹/₄" , -0" (2700mm, +6, -0)
Ceiling Heights other than recommended may impact equipment functionality, consult with local Philips Service.



Refer to Ceiling Support Legend - Sheet SL

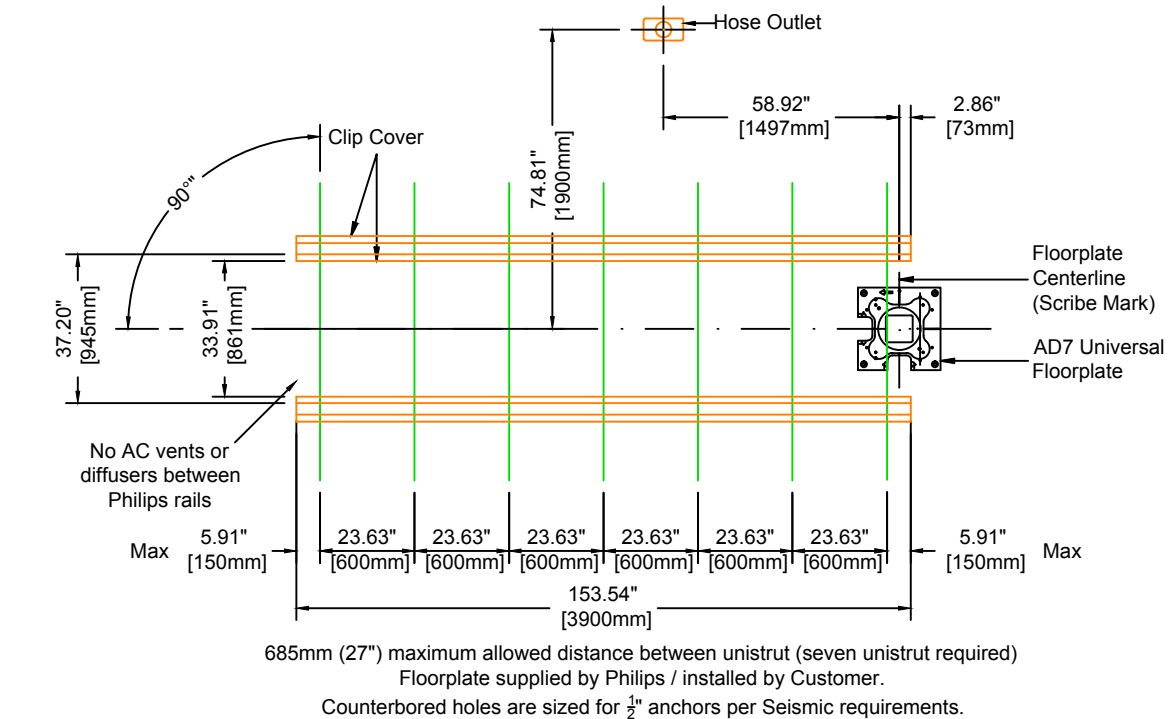


Project Details	Philips Contacts	Project
Drawing Number N-WES100655 C Date Drawn: 1/28/2011 Quote: 1-R5TFEL Rev.3 Order: None	Project Manager: Freund, Michael Contact Number: 303-589-5113 Email: michael.freund@philips.com Drawn By: Cho, Calvin	Allura FD20 Ceiling VA, Albuquerque Albuquerque, NM -Room 506

S2

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Detail - Structural Allura FD20 (Ceiling)

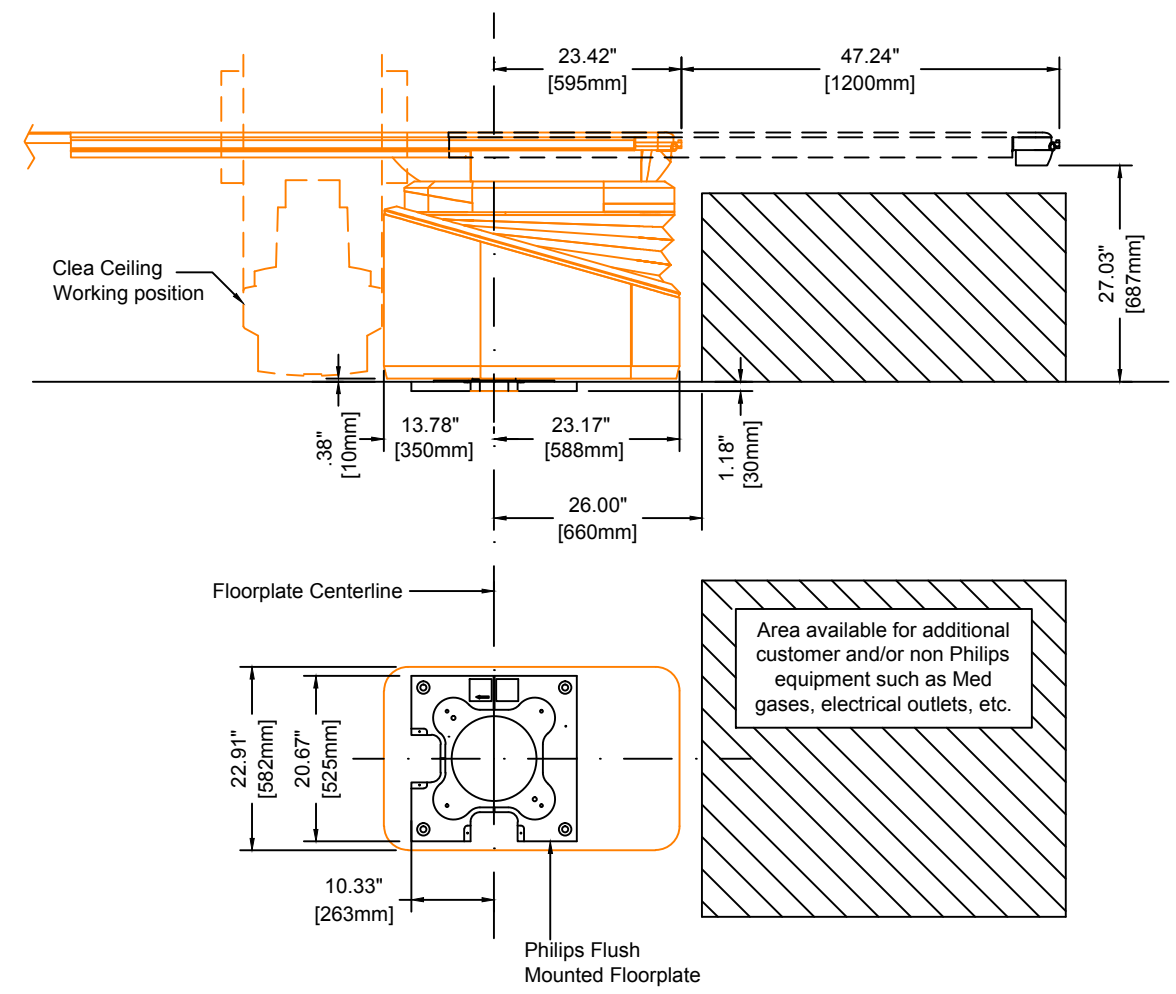


Clea		AD7 Table	
	Clea Forces:		Floorplate to Floor Bolt Forces:
(Tension)	Tmax = 2931 lbs/support	(Tension)	Tmax = 1950 lbs/bolt
(Shear)	Vmax = 1227 lbs/support	(Shear)	Vmax = 776 lbs/bolt

Note: The bearing force shown for the Clea is the maximum instantaneous equipment bearing load that can result from abusive use of the system. This force can occur at two locations simultaneously on the same Unistrut (or equal) rail. If seismic forces must be considered, please refer to the seismic calculation sheets provided by Philips for the specific system components.

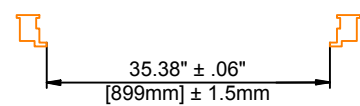
(08.0)

Detail - Clea Ceiling / AD7 Table, Fixed/Pivot Base - Clearance Area

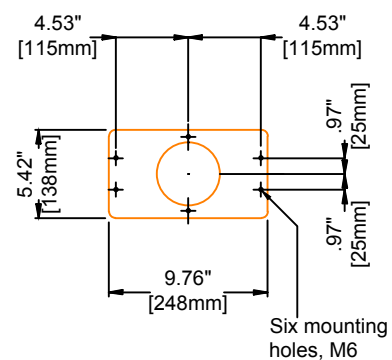


(08.0)

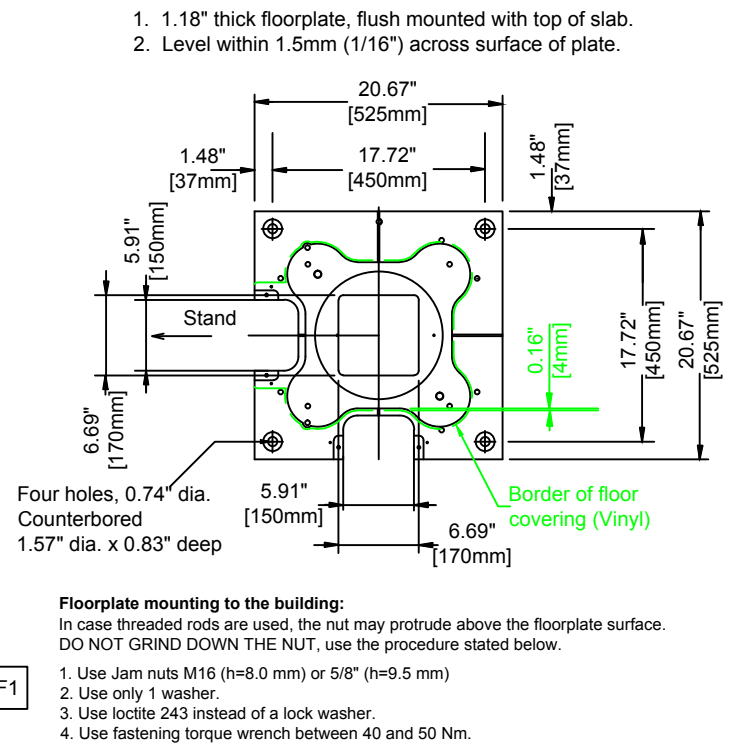
Detail - Cable Hose Outlet



Detail - Clip Rail Spacing



Detail - AD7 Universal Floorplate - Notes for Installation



(08.0)

Project
Allura FD20 Ceiling
VA, Albuquerque
Albuquerque, NM
-Room 506

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com
Drawn By: Cho, Calvin

Project Details
Drawing Number
N-WES100655 C
Date Drawn: 1/28/2011
Quote: 1-R5TFEL Rev.3
Order: None

SD1

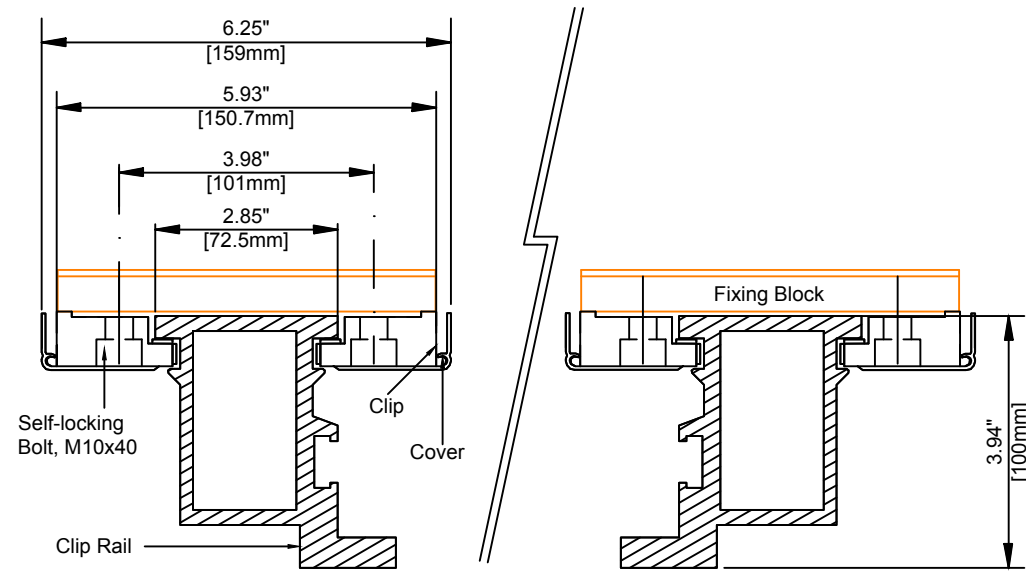
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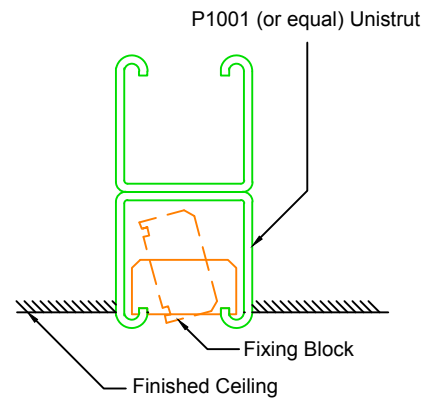
Detail - Clip Rail Cross-Section

(Not to scale)



Detail - Fixing Block for Philips Ceiling Rails (Clip Rails)

(Not to scale)



- * Philips does not specify the overhead equipment support structure. Unistrut (or equal) may or may not be used. If Unistrut are used, it is up to Unistrut and the structural engineer for the project to determine which of it's products are appropriate for each project.
- * Finished ceiling must **NOT** be lower than the bottom of the Unistrut in order to prevent damage to the finished ceiling during the installation of clip rails.
- * Nothing shall be attached to the Unistrut with any fastener that protrudes into the unistrut which would interfere with positioning of the fixing block.
- * Fixing blocks for Philips ceiling rails (Clip rails) are designed to be installed in P1001 Unistrut.
- * The inside of the Unistrut must be clear of obstructions (including paint).
- * Unistrut elements must be rigid and comply with the ceiling structure requirements. See SN sheet, line #4 "Ceiling Support Apparatus".
- * Finished ceiling height to be mounted 1/4" above bottom of Unistrut.

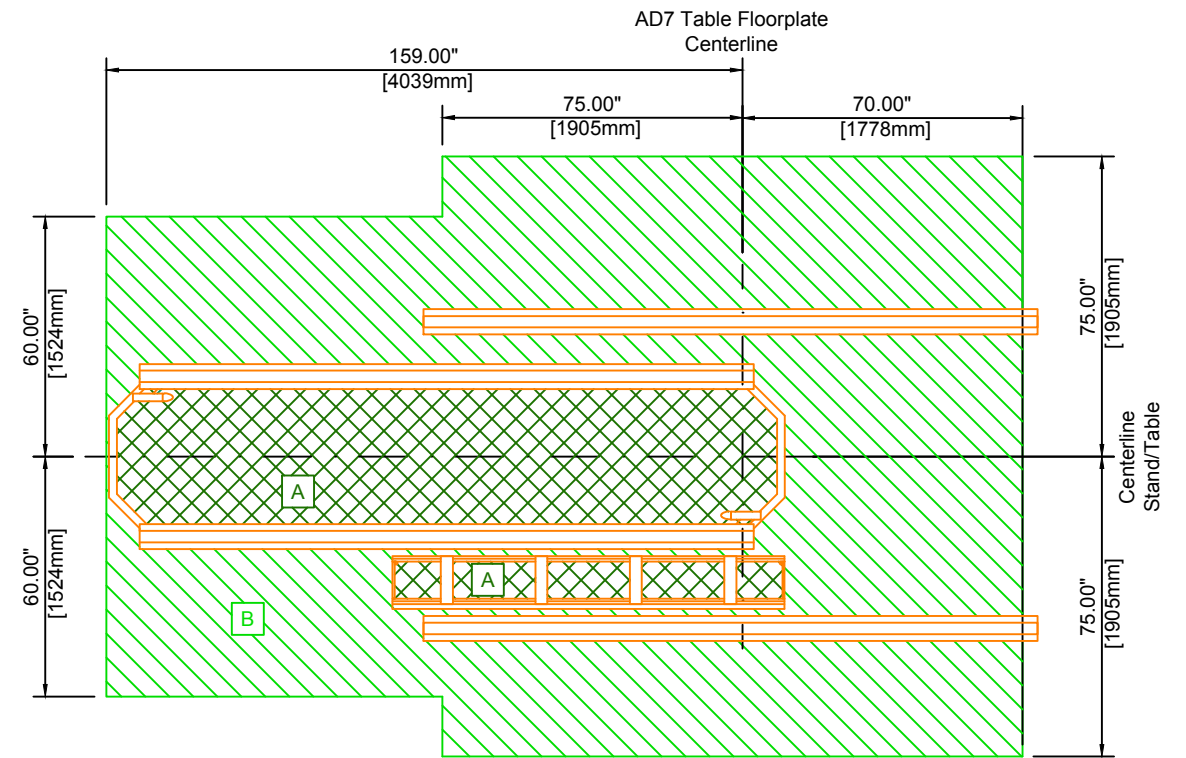


C1 C2 C3

(08.1)

Detail - Restricted Ceiling Area for Objects that Project Below Finished Ceiling

(Not site specific)

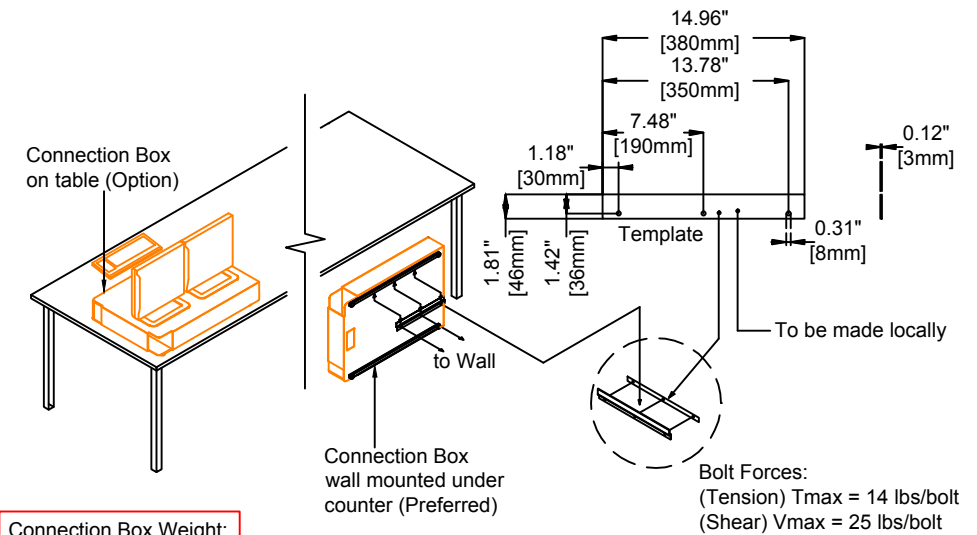


- A** No objects that project below finished ceiling are allowed in this area (lights, smoke detectors, sprinkler heads, etc).
- B** No objects that project more than 4.5" below finished ceiling are allowed in this area (lights, smoke detectors, sprinkler heads, soffit, etc).

(08.0)

Detail - Connection Box Mounting Options

(Not to scale)



Connection Box Weight:
66 lbs (30kg)

Notes:
Connection box needs to be electrically isolated from building steel.
Locate box within 6.5' (2 M) of the review module and monitors.

(08.0)

Project
Allura FD20 Ceiling

VA, Albuquerque
Albuquerque, NM

-Room 506

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com

Drawn By: Cho, Calvin

Project Details
Drawing Number
N-WES100655 C
Date Drawn: 1/28/2011
Quote: 1-R5TFEL Rev.3
Order: None

SD2

THE DRAWINGS AND RELATED INSTRUCTIONS PROVIDED BY PHILIPS ARE ACCEPTABLE FOR USE BY THE HOSPITAL'S ARCHITECT OR ENGINEER TO USE FOR THE DEVELOPMENT OF CONSTRUCTION DOCUMENTS.

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<div>Emergency Power</div> <p>Philips does not require equipment to be on emergency power. If the customer deems it necessary for the equipment to be supplied with emergency power, the following specifications must be applied:</p> <p>The circuit protection for emergency power should be capable of handling a high initial surge of approximately 40 amps.</p> <p>The transfer switch must be double actuator type with a minimum time delay of 400 milliseconds in both directions (utility to emergency - emergency to utility). This time is required to allow filters to dissipate their stored energy before a different mains voltage is applied. Russelectric type RMTD, Asco Series 7000 delayed transition transfer switch or equivalent is recommended.</p> <p>To reduce the emergency power generator load demand, Philips equipment can be put into a lower power mode (5.5kVA fluoroscopy + 4kVA geometry) of operation by the connection of a potential free closure from the transfer switch. This potential free, normally open contact, has to be rated for 24VDC/100mA. For Philips cardio/vascular Integris equipment, the two wires from this contact have to be routed to the equipment area and connected to the System Coordinator cabinet (MA).</p> <div>(03.1)</div>		<div>General Electrical Information</div> <div><div><div><div>1. General</div><p>The customer shall be solely responsible, at its expense, for preparation of the site, including any required electrical alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and electrical codes, the customer shall be solely responsible for obtaining all electrical permits from jurisdictional authority.</p></div><div><div>2. Materials and Labor</div><p>The customer shall be solely responsible, at its expense, to provide and install all electrical ducts, boxes, conduit, cables, wires, fittings, bushing, etc., As separately specified herein.</p></div><div><div>3. Electrical Ducts and Boxes</div><p>Electrical ducts and boxes shall be accessible and have removable covers. Floor ducts and boxes shall have watertight covers. Ducts shall be divided into as many as three separate channels by metal dividers, separately specified herein, to separate wiring and/or cables into groups as follows: Group A: power wiring and/or cables. Group B: signal and/or data and protective ground wiring and/or cables. Group C: x-ray high voltage cables, the use of 90 deg. ells is not acceptable. On ceiling duct and wall duct use 45 deg. bends at all corners. All intersecting points in duct to have cross over tunnels supplied and installed by contractor to maintain separation of cables.</p></div><div><div>4. Conduit</div><p>Conduit point - to - point runs shall be as direct as possible. Empty conduit runs used for cables may require pull boxes located along the run. Consult with Philips. A pull wire or cord shall be installed in each conduit run. All conduits which enter duct prior to their termination point must maintain separation from other cables via use of dividers, cross over tunnels, or conduit supplied and installed by contractor from entrance into duct to exit from duct. Do not use flex conduit unless approved by Philips Service.</p></div><div><div>5. Conductors</div><p>All conductors, separately specified, shall be 75°C stranded copper, rung out and marked.</p></div><div><div>6. Disconnecting Means</div><p>A disconnecting means shall be provided as separately specified.</p></div><div><div>7. Warning Lights and Door Switches</div><p>"X-ray on" warning lights and x-ray termination door switches should be provided at all entrances to x-ray rooms as required by code.</p></div><div><div>8. Dimmer Switches</div><p>X-ray room lights should be provided with dimmer switches.</p></div></div><div>(03.0)</div></div>	
<div>Electrical Requirement Notes for Systems with PDU</div> <p>Electrical power distribution at the facility shall comply with:</p> <p>Utilization voltages per ANSI C84.1 - 1982 range A.</p> <p>Voltage to be supplied is 3 phase, delta or wye.</p> <p>Phase conductors to be size for instantaneous voltage drop per NEC 517 - 73 and Philips recommendations.</p> <p>On systems with a PDU, the ground conductor for the power feeder shall never be less than $\frac{1}{2}$ the cross-sectional area of the phase conductors and never smaller than #5 AWG.</p> <p>Metal conduit shall not be used as the equipment ground conductor.</p> <p>ANSI / NFPA 70 - National Electrical Code Article 250 - Grounding Article 517 - Healthcare Facilities ANSI / NFPA 99 - Healthcare Facilities NEMA standard XR9 - Power Supply Guideline for X-ray Machines</p> <div>Power Quality Guidelines</div> <p>1. Power supplied to medical imaging equipment must be separate from power feeds to air conditioning, elevators, outdoor lighting, and other frequently switched or motorized loads. Such loads can cause waveform distortion and voltage fluctuations that can hinder high quality imaging.</p> <p>2. Equipment that utilizes the facility power system to transmit control signals (especially clock systems) may interfere with medical imaging equipment, thus requiring special filtering.</p> <p>3. The following devices provide a high impedance, nonlinear voltage source, which may affect image quality:</p> <p>Static UPS systems, Series filters, Power conditioners, and Voltage regulators.</p> <p>Do not install such devices at the mains supply to medical imaging equipment without consulting Philips installation or service personnel.</p> <p>4. Line impedance is the combined resistance and inductance of the electrical system and includes the impedance of the power source, the facility distribution system, and all phase conductors between the source and the imaging equipment. Philips publishes recommended conductor sizes based on equipment power requirements, acceptable voltage drops, and assumptions about the facility source impedance. The minimum conductor size is based on the total line impedance and NEC requirements. Unless impedance calculations are performed by an electrical engineer, the recommended values must be used.</p> <div>(08.0)</div>		<div>Electrical Notes</div> <p>1. The contractor will supply & install all breakers, shunt trip and incoming power to the breakers. The exact location of the breakers and shunt trips will be determined by the architect or contractor.</p> <p>2. The contractor shall supply & install all pull boxes, raceways, conduit runs, stainless steel covers, etc. Conduit/raceways must be free from burrs and sharp edges over its entire length. A Greenlee pull string/measuring tape (part no. 435, or equivalent) shall be provided with conduit runs.</p> <p>3. All pre - terminated, cut to length cables, will be supplied and installed by Philips. All cables to the breakers, will be supplied and installed by the contractor, subject to local arrangements.</p> <p>4. Provide and install 4 - 2" (50 mm) diameter. Chase nipples between adjacent wall boxes.</p> <p>5. Electrical raceway shall be installed with removable covers. The raceway should be accessible for the entire length. In case of non - accessible floors, walls and ceilings, an adequate number of access hatches should be supplied to enable installation of cabling. Approved conduits may be substituted. All raceways will be designed in a manner that will not allow cables to fall out of the raceway when the covers are removed. In most cases, this will require above - ceiling raceway to be installed with the covers removable from the top. Raceway system as illustrated on this drawing are based upon length of furnished cables. Any changes in routing of raceway system could exceed maximum allowable length of furnished cables. Conduit or raceway above - ceiling must be kept as near to finished ceiling as possible.</p> <p>6. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or National Electrical Codes, whichever govern.</p> <p>7. Convenience outlets are not illustrated. Their number and location are to be specified by the customer/architect.</p> <p>8. Electrical contractor shall install ground bond wires at conduit openings within wall boxes as required by national and local electrical codes. Ground bond wires and lugs shall be installed in such a way to prevent the inadvertent contact with the installed Philips equipment to maintain the Philips Equipotential Grounding Configuration and maintain patient safety. Install a #6 AWG stranded ground wire in the conduits from the Main Disconnect (CB) to the PDU and from the PDU to the MG wall box.</p> <p>9. If the Philips system includes a PDU, the PDU is a "Separately Derived Source" by NEC standards, and must be ground according to NEC article 250-30.</p> <p>10. Philips equipment must be electrically isolated from conduits, raceways, ducts, etc.</p> <p>11. Acceptable cross-overs: Walker DuctCat. #RPD10-TUN-3C /, Square D Cat. #RSV122ST .</p> <div>(10.0)</div>	

<div>Project Details</div> <div>Drawing Number N-WES100655 C Date Drawn: 1/28/2011 Quote: 1-R5TFEL Rev.3 Order: None</div>	<div>Philips Contacts</div> <div>Project Manager: Freund, Michael Contact Number: 303-589-5113 Email: michael.freund@philips.com</div> <div>Drawn By: Cho, Calvin</div>	<div>Project</div> <div>Allura FD20 Ceiling VA, Albuquerque Albuquerque, NM -Room 506</div>

EN

THE DRAWINGS AND RELATED INSTRUCTIONS PROVIDED BY PHILIPS ARE ACCEPTABLE FOR USE BY THE HOSPITAL'S ARCHITECT OR ENGINEER TO USE FOR THE DEVELOPMENT OF CONSTRUCTION DOCUMENTS.

Electrical Legend			
<div><div>A</div><div>Furnished and installed by Philips</div><div>B</div><div>Furnished by customer/contractor and installed by customer/contractor</div><div>C</div><div>Installed by customer/contractor</div><div>D</div><div>Furnished by Philips and installed by contractor</div><div>E</div><div>Existing</div><div>F</div><div>Future</div><div>G</div><div>Optional</div></div>			
Item Number		Detail Sheet	
		Description	
B	CB	480V, 3 phase 125 AMP circuit breaker with shunt trip. Run power from breaker to "PBK", leaving an 8' tail at "PBK", and from "PBK" to "MG", leaving an 8' tail at each end. See Sheet "ED1" for power quality requirements. Location per local code or owner requirements. (Not shown on plan)	ED1
B	ST	Shunt Trip (emergency off) - Large mushroom-head button on remote control station with contacts to operate feature of "CB" (if required by local code or owner, and mandatory for VA and D.O.D installations). (Not shown on plan)	
B	GE	Ground electrode per N.E.C. 250-26, building steel preferred. (Not shown on plan)	
B	PBG	Central ground busbar mounted in a 12"W x 12"H x 4"D pull box with hinged cover, surface mounted to the bottom of "WR2" when possible.	ED2
B	PBK	18"W x 18"H x 8"D flanged-edge terminal wall box with removable screw-type cover plate, surface mounted 22" A.F.F. to bottom of box, provide (1) 1 1/2" and (2) 2" conduits through "PBK" cover plate to PDU cabinet.	ED1
D	MPMGMA	19 1/4"W x 67"H x 4"D flanged-edge terminal wall box, surface mounted 75" A.F.F. to top of box. General contractor to cut top and/or bottom of box as required.	ED2
B	CYWMVB1VB2VB3VB4EPNXIMUPSXIMVUSRIC	Grommet opening on "WR1". Approximate location shown is recommended and may be changed - verify relocation with local Philips Service.	
B	MSA	10"W x 10"L x 6"D floor box, under the floor with a 5" core drill up to the underside of AD7 universal floorplate.	
B	SP	18"W x 18"L x 6"D ceiling box, flush mounted with removable screw-type cover plate. Provide one 3" diameter knockout.	
B	TV	18"W x 18"L x 6"D ceiling box, flush mounted with removable screw-type cover plate. Provide a 2 1/2" round cutout (Two 2 1/2" round cutouts are required for systems with two monitor carriages - verify with local Philips Service).	
B	WR1WR2	10"W x 4"D wall raceway, surface mounted with removable screw-type cover plate. "WR1" is at finished floor. "WR2" is at 75" A.F.F. to bottom of raceway. "WR1" may need to be cut at the location of the "CY" connection box.	ED3
B	R1	10"W x 4"D riser duct with removable screw-type cover plate, surface mounted from wall raceway to wall box.	ED3
B	ATY	Auxiliary Box - 6"W x 6"H x 4"D wall box, flush mounted 70" A.F.F. to the bottom of the box with removable screw-type cover plate. Location shown is recommended and may be changed - verify relocation with local Philips Service.	
B	HCU	(Customer's) Hard Copy Unit - Contact manufacturer for power requirements. (Not shown on plan)	
B	WL	Warning Light - Provide a surface or flush mounted light fixture above door to indicate when X-ray is on, if required by local code or physicist of record. See Sheet "ED2" diagram for connection details. (Not shown on plan)	ED2

Electrical Legend			
<div><div>A</div><div>Furnished and installed by Philips</div><div>B</div><div>Furnished by customer/contractor and installed by customer/contractor</div><div>C</div><div>Installed by customer/contractor</div><div>D</div><div>Furnished by Philips and installed by contractor</div><div>E</div><div>Existing</div><div>F</div><div>Future</div><div>G</div><div>Optional</div></div>			
Item Number		Detail Sheet	
		Description	
B	DS	Door Switch - 120V/5A switch limited to open when door is open. Mount in upper corner on strike side of main entry door(s) (Cooper no. 1665 or equivalent), if required by local code or physicist of record. See Sheet "ED2" diagram for connection details. (Not shown on plan)	ED2
B	T	Analog phone line for service (convenience). (Not shown on plan)	
B	N1	RJ45 type Ethernet 10/100/1000 Mbit network connector with access to customer's network. Locate within 10' of network card. Network fiber optic and Ethernet cabling, connectors, wall boxes, patch panels, etc. are the responsibility of the purchaser. Philips assumes no responsibility for procurement, installation, or maintenance of these components.	N1
B	N2	RJ45 type Ethernet 10/100/1000 Mbit network connector. Access to customer's network via their remote access server is needed for Remote Service Network (RSN) connectivity.	
B	Is	120V/20A dedicated duplex outlet for service in the equipment room. (Not shown on plan)	
B		120V/20A dedicated duplex outlet for IH (Interventional Hardware).	
B		120V/20A duplex outlet for each of the wall video boxes (VB1~ VB4).	
B	F	120V/20A dedicated duplex outlet for Pedestal Injector.	
B		120V/20A dedicated duplex outlet for IUPS (Interventional UPS).	
A		120V/20A dedicated duplex outlet for NS (Nurse Station).	
G	SV	3" flush conduit opening for IVUS system cables. Opening must be covered if the IVUS system is planned for future installation. See Sheet "E1" for exact location.	ED3
B	IC	Grommet opening on "WR2". Exact size and location to be determined by local Philips Service.	

See E1 - E3 sheets for conduit and raceway requirements.

Project Details		Philips Contacts		Project	
Drawing Number		Project Manager: Freund, Michael		Allura FD20 Ceiling	
N-WES100655 C		Contact Number: 303-589-5113		VA, Albuquerque	
Date Drawn: 1/28/2011		Email: michael.freund@philips.com		Albuquerque, NM	
Quote: 1-R5TFEL Rev.3		Drawn By: Cho, Calvin		-Room 506	
Order: None					



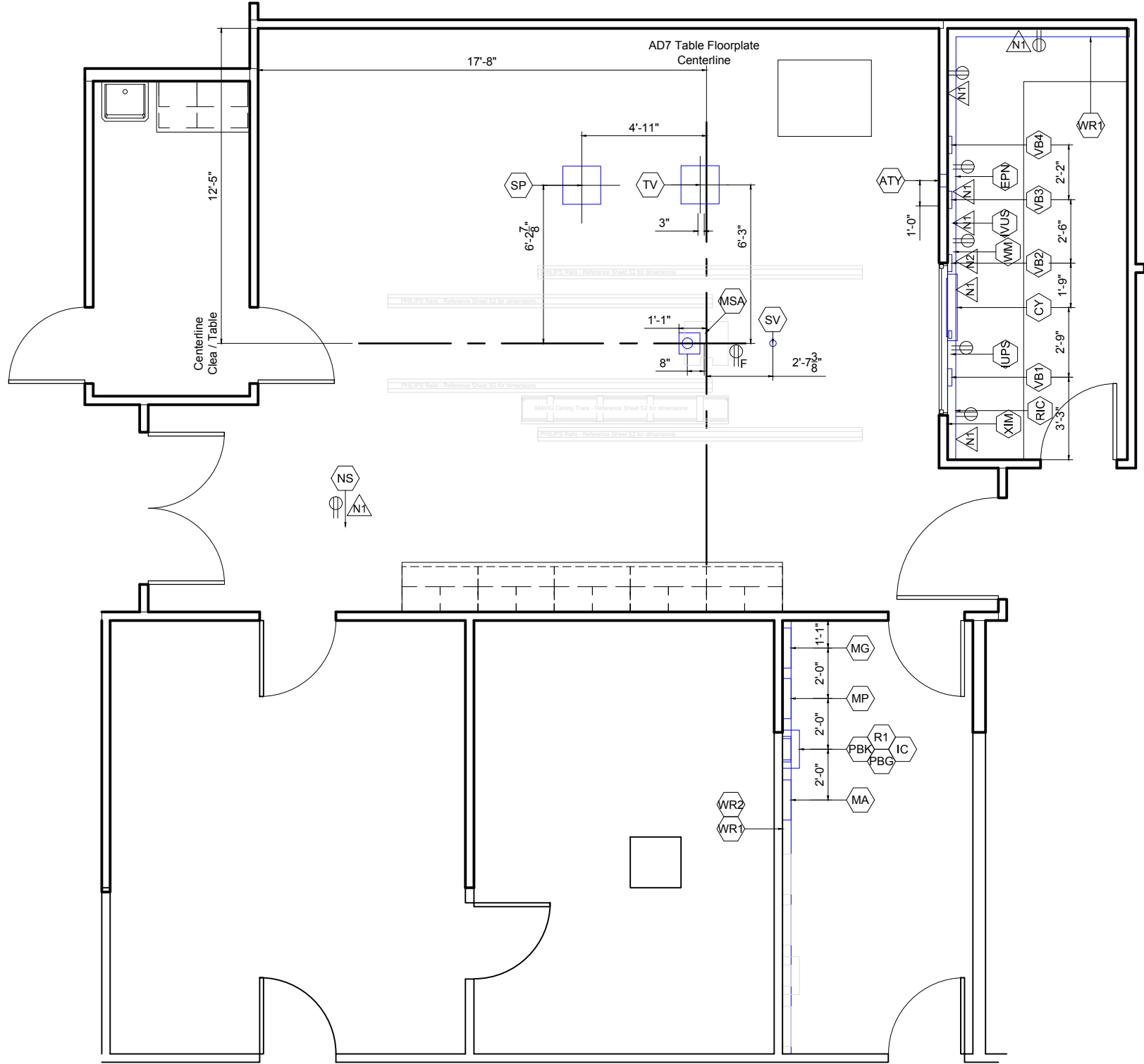
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Electrical Layout

Required Ceiling Height : 8' - 10 $\frac{5}{16}$ " , + $\frac{1}{4}$, -0" (2700mm, +6, -0)
Ceiling Heights other than recommended may impact equipment functionality, consult with local Philips Service.



Refer to Electrical Legend - Sheet EL
and Raceway/Conduit - Sheet E2-E3



E1

Project Details

Drawing Number

N-WES100655 C

Date Drawn: 1/28/2011

Quote: 1-R5TFEL Rev.3

Order: None

Philips Contacts

Project Manager: Freund, Michael

Contact Number: 303-589-5113

Email: michael.freund@philips.com

Drawn By: Cho, Calvin

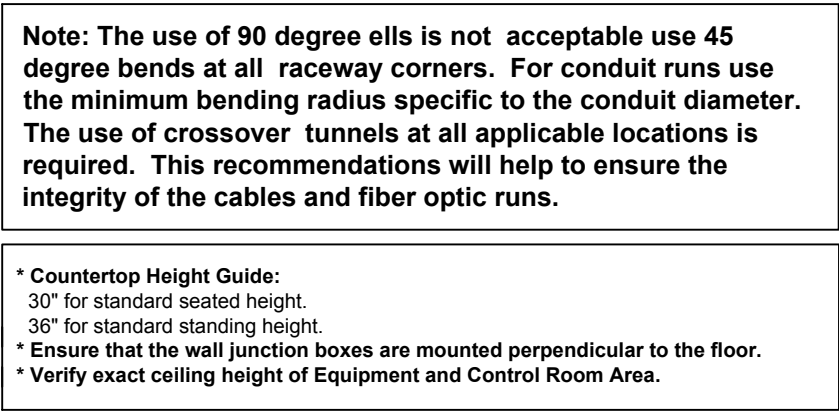
Project

Allura FD20 Ceiling

VA, Albuquerque

Albuquerque, NM

-Room 506

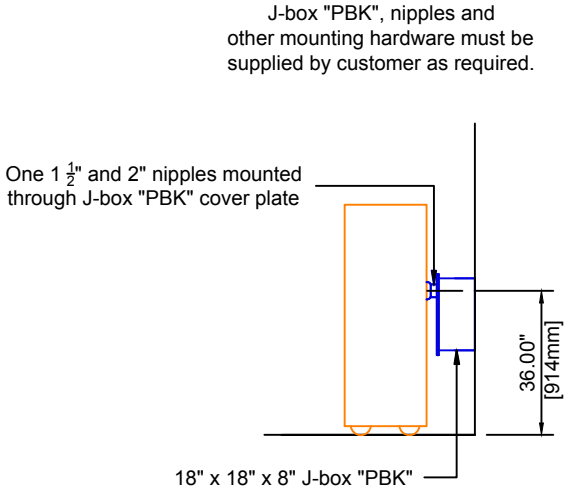


Conduit Required								
General Notes								
1. All conduit runs must take most direct route point to point. 2. All conduit runs must have a pull string.								
A Conduit supplied/installed by contractor - Philips cables installed by Philips B Conduit supplied/installed by contractor - Philips cables installed by contractor C Conduits and cables supplied and installed by contractor D Conduit existing - cables supplied and installed by Philips E Conduit existing - cables supplied by Philips, installed by contractor F Conduit existing - cables supplied and installed by contractor G Optional equipment, verify with local Philips Service								
* P Power (AC) D Power (DC) G Ground S Signal H High Tension C Cooling Hose A Air Supply Hose								
↓	Conduit			Conduit Quantity	Cable Type (*)	Minimum Conduit Size	Maximum Conduit Length	Special Requirements
	Run No.	From	To					
C	1	Power Panel	CB	1	(P)	Per N.E.C.	Per N.E.C.	See Sheet "ED2" for details.
B	2	PBK	PDU Cabinet	1	(P)	1 1/2"	-	
B	3	PBK	PDU Cabinet	2	(P)	2"	-	
B	4	CB	PBK	1	(P)	2"	50'	
C	5	CB	ST	1	(P)	3/4"	50'	
C	6	PBK	GE	1	(P)	3/4"	25'	
C	7	PBG	Room Outlets	1	(P)	3/4"	-	
C	8	MA	WL	1	(P)	3/4"	55'	
A	9	SP	MG	1	(H)	2 1/2"	28.5'	
A	10	SP	MG	1	(P)	1"	28.5'	H.T. Cables.
A	11	SP	MG	1	(S)	1 1/2"	28.5'	
A	12	SP	MP	1	(S)	2 1/2"	33'	
A	13	SP	MP	1	(P)	1"	33'	
A	14	SP	MP	2	(C)	2"	33'	
A	15	SP	MP	2	(C)	2 1/2"	33'	
A	16	SP	MA	1	(S)	2 1/2"	36'	
A	17	MSA	MP	1	(S)	2 1/2"	49'	
A	18	MSA	MP	1	(P)	1"	49'	
A	19	MSA	MA	1	(S)	2 1/2"	49'	Cooling fluid hoses for tube. Cooling fluid hoses for detector.
A	20	MSA	MA	1	(P)	3/4"	49'	
A	21	TV	MA	1	(P)	2"	52'	
A	22	TV	MA	1	(S)	2 1/2"	52'	
A	23	TV	MP	1	(S)	1 1/2"	54'	
A	24	ATY	MA	1	(S)	2 1/2"	41'	
A	25	ATY	TV	1	(S)	3/4"	75'	
A	26	CY	MP	1	(S)	2"	50'	
A	27	CY	MA	1	(P)	2"	55'	
A	28	CY	MA	1	(S)	2 1/2"	55'	
A	29	MA	WM	1	(S)	1"	82'	For optional equipment (Interventional Hardware, ViewForum, Xcelera, etc).
G	30	TV	Control Room	2	(S)	1 1/2"	-	

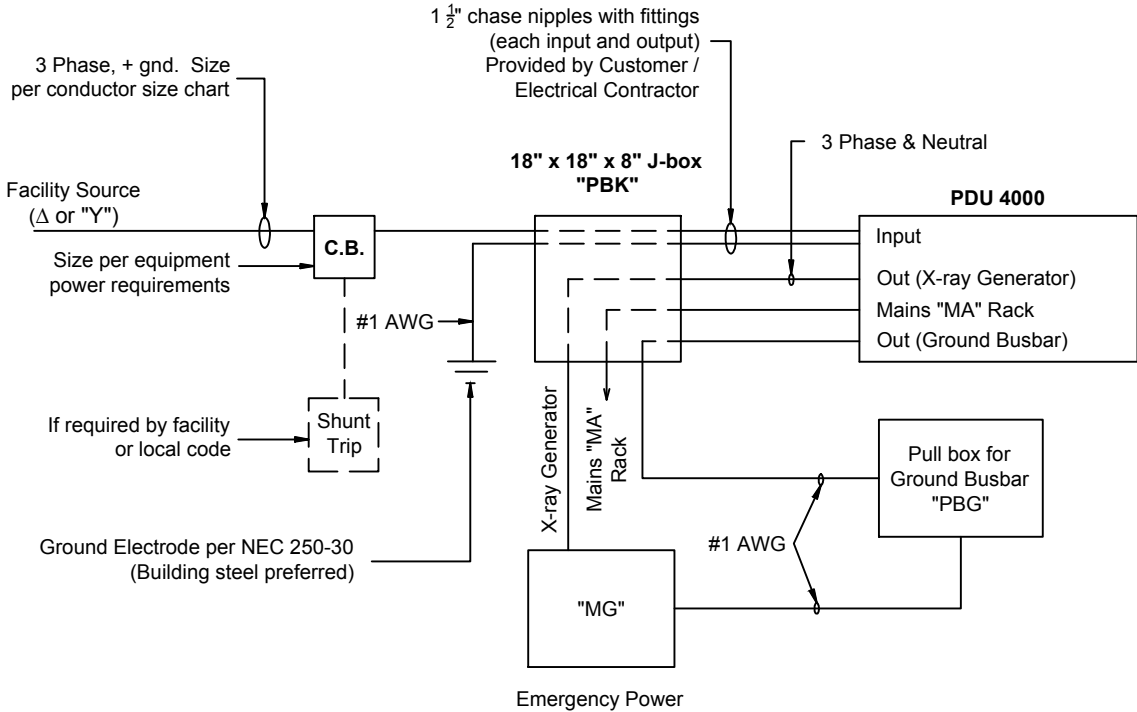
Conduit Required								
General Notes								
1. All conduit runs must take most direct route point to point.								
2. All conduit runs must have a pull string.								
A Conduit supplied/installed by contractor - Philips cables installed by Philips								
B Conduit supplied/installed by contractor - Philips cables installed by contractor								
C Conduits and cables supplied and installed by contractor								
D Conduit existing - cables supplied and installed by Philips								
E Conduit existing - cables supplied by Philips, installed by contractor								
F Conduit existing - cables supplied and installed by contractor								
G Optional equipment, verify with local Philips Service								
* P Power (AC) D Power (DC) G Ground S Signal H High Tension C Cooling Hose A Air Supply Hose								
Conduit				Conduit Quantity	Cable Type (*)	Minimum Conduit Size	Maximum Conduit Length	Special Requirements
Run No.	From	To						
A	31	VB1	MP	1	(S)	1 1/2"	68'	Multivision.
A	32	VB2	MP	1	(S)	1 1/2"	68'	Multivision.
A	33	VB3	MP	1	(S)	1 1/2"	68'	Multivision.
A	34	VB4	MP	1	(S)	1 1/2"	68'	Multivision.
A	35	MSA	UPS	1	(P)	1 1/2"	91'	Ground.
A	36	MSA	XIM	1	(P)	3/4"	91'	
A	37	MSA	XIM	1	(S)	3"	91'	
A	38	TV	UPS	1	(P)	1 1/2"	91'	
A	39	TV	XIM	1	(S)	3"	62'	
A	40	XIM	PBG	1	(P)	3/4"	-	
G	41	VUS	SV	1	(S)	3"	75'	
A	42	IC	MSA	1	(S)	2 1/2"	52'	
A	43	IC	RIC	1	(S)	1 1/2"	50'	
Conduit opening must be covered if the IVUS system is planned for future installation.								
For Table Mounted Injector.								

Project Details Drawing Number N-WES100655 C Date Drawn: 1/28/2011 Quote: 1-R5TFEL Rev.3 Order: None	Philips Contacts Project Manager: Freund, Michael Contact Number: 303-589-5113 Email: michael.freund@philips.com	Project Allura FD20 Ceiling VA, Albuquerque Albuquerque, NM -Room 506
	Drawn By: Cho, Calvin	
	THE DRAWINGS AND RELATED INSTRUCTIONS PROVIDED BY PHILIPS ARE ACCEPTABLE FOR USE BY THE HOSPITAL'S ARCHITECT OR ENGINEER TO USE FOR THE DEVELOPMENT OF CONSTRUCTION DOCUMENTS.	

Detail - PDU 4000 Mounting Detail



PDU 4000 with J-box "PBK" flush or surface mounted behind unit.



Note: Conductors, destinations, and number of conduit runs from PDU to J-box "PBK" and from J-box to equipment will vary from system to system. Consult individual site plans for detailed conduit schedules.

Diagram - PDU 4000 Electrical Interface

(00.0)



Power Quality Requirements

Velara 100KW with PDU 4000

Power Output:	100KW
Supply Configuration:	3 phase, 3 wire power and ground, Delta or wye 3 phase, 4 wire power w/ Neutral + ground, wye
Nominal Line Voltage:	480 VAC, 60 Hz
Line Voltage Variation:	± 10% steady-state
Line Voltage Balance:	2% maximum of nominal voltage between phases
Frequency Variation:	± 1.0 Hz
Voltage Surges:	To 110% of steady-state voltage 100 msecs. Maximum duration, 6 per hour maximum
Voltage Sags:	To 90% of steady-state voltage 100 msecs. Maximum duration, 6 per hour maximum
Line Impulses:	1000 VPK above phase-neutral RMS absolute maximum. No more than 1 impulse per hour to exceed 500 VPK.
Neutral-Ground Voltage:	2.0 volts maximum RMS value
Neutral-Ground Impulses:	No more than 1 per hour that exceeds 25 volts and 1 Mjoule
High Frequency Noise:	3.0 volts steady-state maximum. Over 3.0 volts permitted for 100 msec. maximum, 1 per hour max.
Grounded Conductor Impedance:	0.1 Ohms @ 60 hz. maximum

Branch Circuit and Wire Gauge Requirements

Velara 100KW with PDU 4000

Branch Power:	225 KVA
Max Stand by Current:	8 Amps. @ 3 mA, 110 KVP continuous
Circuit Breaker:	3 pole, 125 amperes
Maximum Instantaneous Power:	201 KVA (1000 mA @ 100 KVP)

Recommended conductor sizes for 1% impedance of branch conductors to circuit breaker (CB). Based on 20° copper conductors:

	480VAC
1/0 AWG	95ft
2/0 AWG	120ft
3/0 AWG	151ft
4/0 AWG	193ft
250 KCM	226ft
300 KCM	271ft
400 KCM	365ft

Inst. Current @ CB Panel	242 A
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Max. Phase-phase impedance @ CB Panel	≤ 200 mΩ
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Max. Load Voltage Drop @ CB Panel	18.2 V
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Percent Regulation at Maximum Load @ CB Panel	3.8%
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Output Voltage PDU 4000:	480 VAC ± 10%
Max Inst. Current @ PDU output:	305 Amps
Max Phase-Phase Impedance:	≤ 200 mΩ @ PDU output
Max Load Voltage Drop:	24.4 V @ PDU output
Percent Regulation at Max. Load:	6.4% @ PDU output

Minimum copper wire size, circuit breaker to PDU: #1 - Maximum 50' in length.



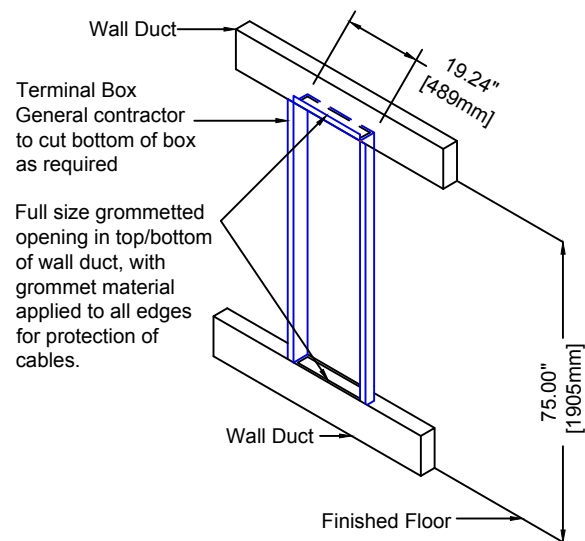
Project
Allura FD20 Ceiling
VA, Albuquerque
Albuquerque, NM
-Room 506

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com
Drawn By: Cho, Calvin

Project Details
Drawing Number
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Date Drawn: 1/28/2011
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Order: None

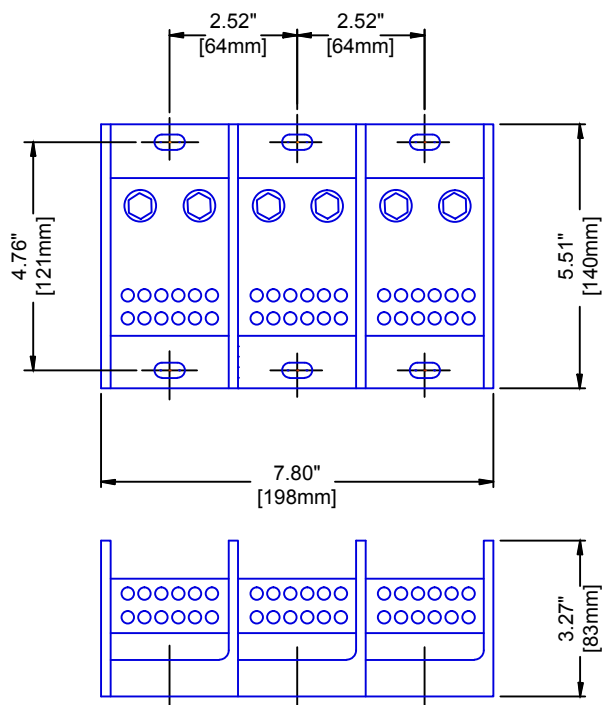
ED1

Detail - Wall Box Mounting (Not to scale)

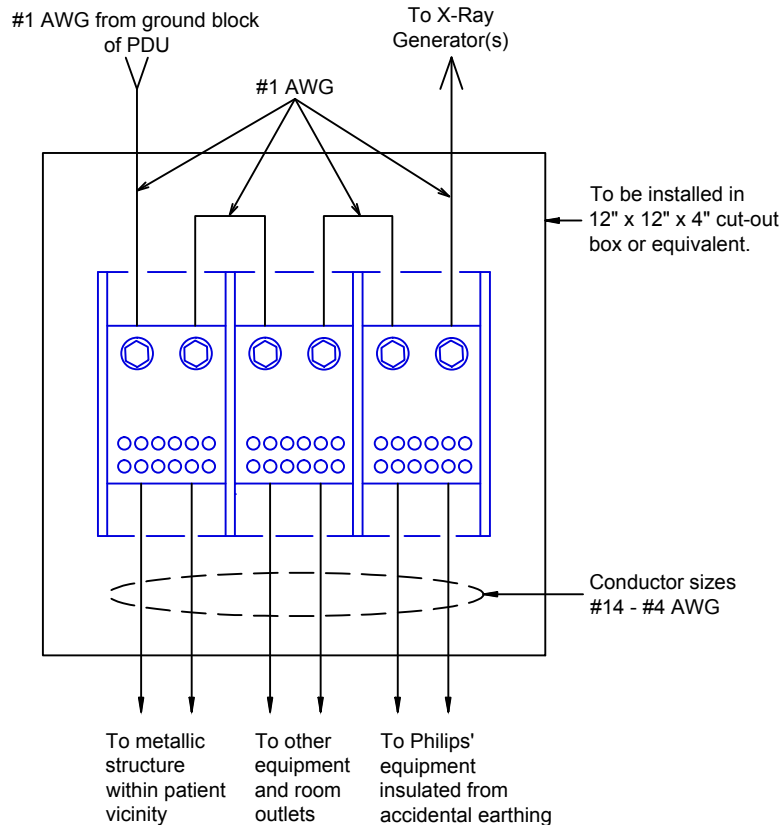


(08.0)

Detail - Ground Busbar Application (Not to scale)



1. Furnished and installed by Customer / Contractor
2. Purchase from local Ferraz Shawmut distributor, <http://www.ferrazshawmutsales.com/index.htm> Catalog #69143.
3. 62000 - 69000 Series Blocks <http://www.ferrazshawmutsales.com/pdfs/PDB-LARGE.pdf>



Invasive Procedures

This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.

Test performed by GSSNA service ensure that these specifications are met by the GSSNA equipment. It is the facility's responsibility to ensure that these specifications are met by the wall outlet, facility structure, and other equipment not installed by GSSNA.

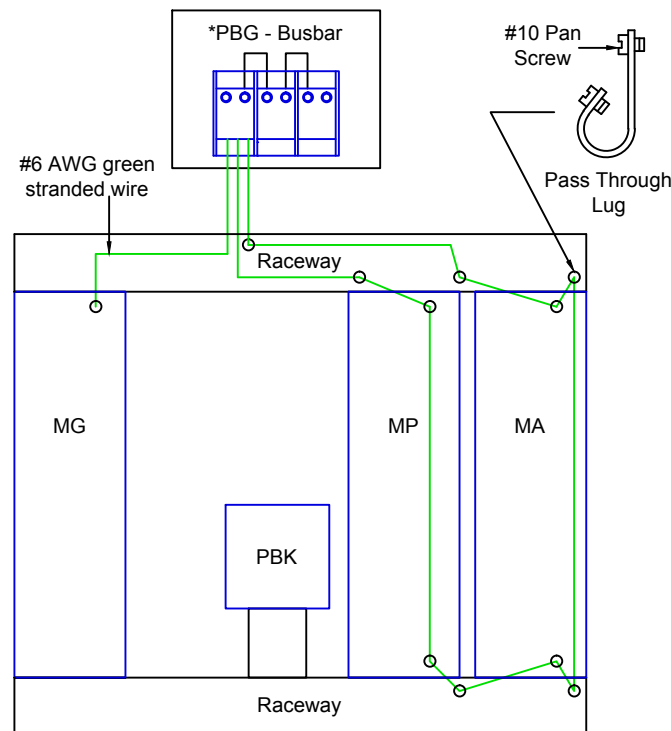
The GSSNA specified "Central Ground Busbar" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA-99 (3-5.2.1.2) for non-PMSNA equipment.



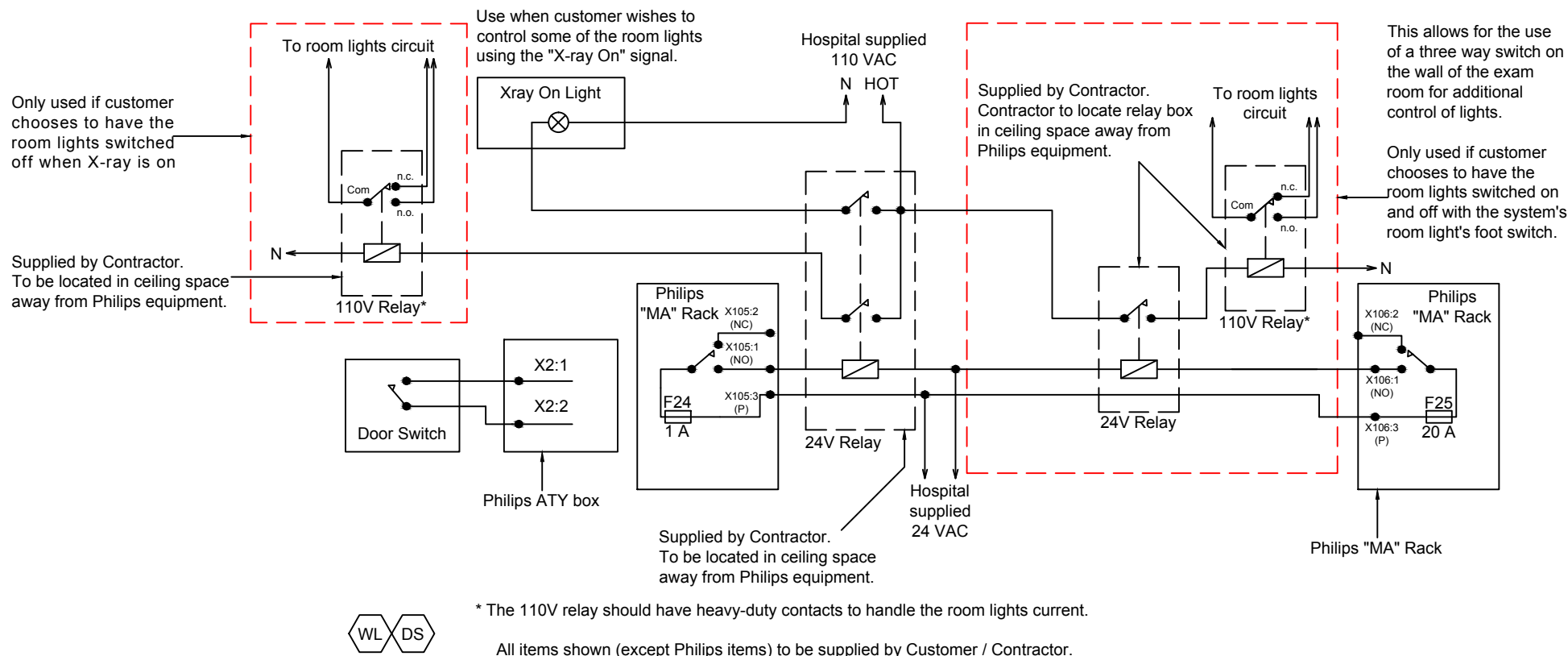
(08.0)

Detail - Grounding (Not to scale) (Not site specific)

* PBG to be placed at a reachable height.



(08.0)



* The 110V relay should have heavy-duty contacts to handle the room lights current.

All items shown (except Philips items) to be supplied by Customer / Contractor.

Diagram - Typical Connection of X-Ray On Light, Door Switch, & Room Lights

(08.0)

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-Room 506

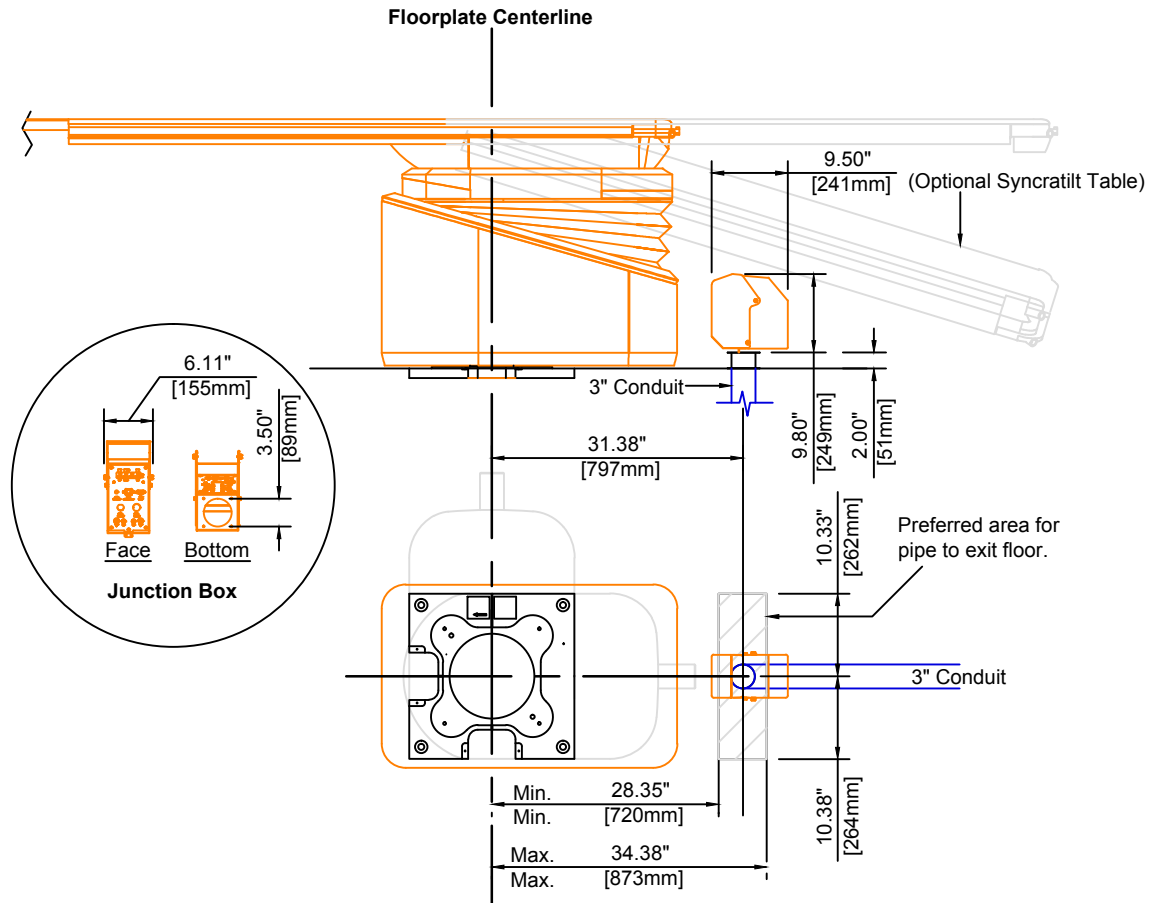
Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com

Project Details
Drawing Number
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Date Drawn: 1/28/2011
Quote: 1-R5TFEL Rev.3
Order: None

ED2

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Detail - Volcano IVUS: Pre-Installation Data Area for Pipe to Exit Floor
(Not to scale)

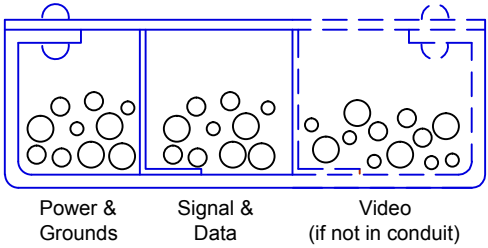


Note: 3" conduit opening must be covered if the IVUS system is planned for future installation

(08.0)

Detail - Cable Trough Divisions

- Troughs or ducts must be separated by metal barriers into three sections:
1. High voltage (H.T.) cables to be run separately from all cables.
 2. Power cables and ground cables can be run together.
 3. Signal cables and data cables can be run together but must be separated from power cables.
 4. Video cables to be run separately from all other cables.



5. It is important that all cables are placed in the appropriate trough and at no given point do any cables from one division cross cables from another. Trough separation must be continuous from the beginning to the end of the run. Utilize crossover tunnels as appropriate.
6. Trough or ducts: steel with steel dividers grounded to building ground.
7. Contractor to provide cable restraints in all troughs.
8. Acceptable cross-overs: Walker DuctCat. #RPD10-TUN-3C / Square D Cat. #RSV122ST



(10.0)

Project Details	Philips Contacts	Project
Drawing Number N-WES100655 C Date Drawn: 1/28/2011 Quote: 1-R5TFEL Rev.3 Order: None	Project Manager: Freund, Michael Contact Number: 303-589-5113 Email: michael.freund@philips.com Drawn By: Cho, Calvin	Allura FD20 Ceiling VA, Albuquerque Albuquerque, NM -Room 506

ED3

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Philips Healthcare Remote Services Network (RSN)

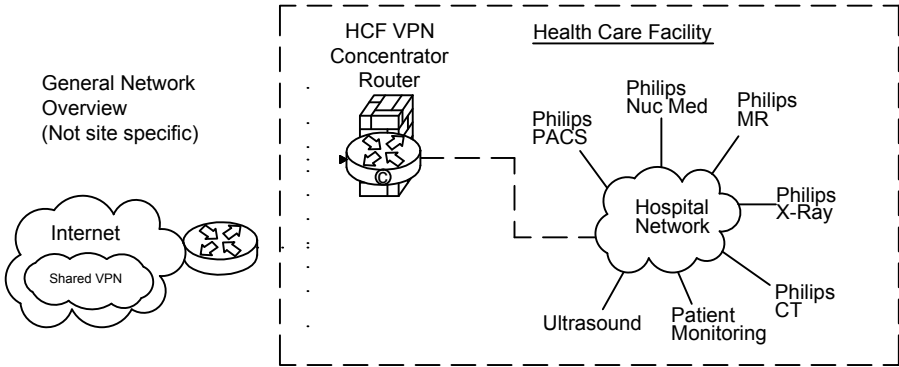
Secure broadband connection required for Philips remote technical support, diagnostics, and applications assistance

Broadband Site-to-Site Connectivity (Preferred)

This connectivity method is designed for customers who prefer a connection from the RSN Data Center to the Health Care Facility (HCF) utilizing their existing VPN equipment.

Connectivity Details:

- A Site-to-Site connection from the RSN data center's Cisco router will be established to the HCF's VPN concentrator.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE as standard, but alternative standards are also available, such as AES, MD5, SHA, Security Association lifetime and Encryption Mode.
- Every system that we will be servicing remotely will have a static NAT IP that we configure on the RSN Data center side.



Action Required by Hospital:

- Review and approve connection details.
- Complete appropriate Site Checklist.
- Configure and allow Site-to-Site access prior to setting up connectivity depending on the access criteria that the HCF decides to implement (ex: Source IP filtering, destination IP filtering, NAT assignment, etc.).
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to the designed IP provided by Philips.

Broadband Router Installed at Health Care Facility

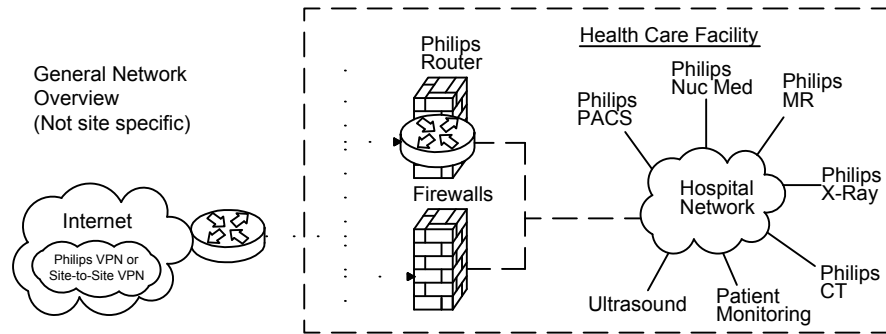
This connectivity method is designed for customers who have a dedicated high speed connection for Philips equipment.

Connectivity Details:

- An RSN Cisco 1711 or 1712 router will be preconfigured and installed at the HCF by Philips in conjunction with the HCF IT representative.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE and will be established from the RSN-DC and terminated at the RSN Router on-site.
- One to One NAT is used to limit access to Philips equipment only.
- Router Config and IP auditing is enabled for Customer IT to view via website 24/7.
- Dedicated DSL connections are also supported.

Option 1: Parallel to HCF Firewall Connectivity Method

This connectivity method is designed for customers who prefer a Philips RSN Router installed on site utilizing all the security features provided and managed by Philips.

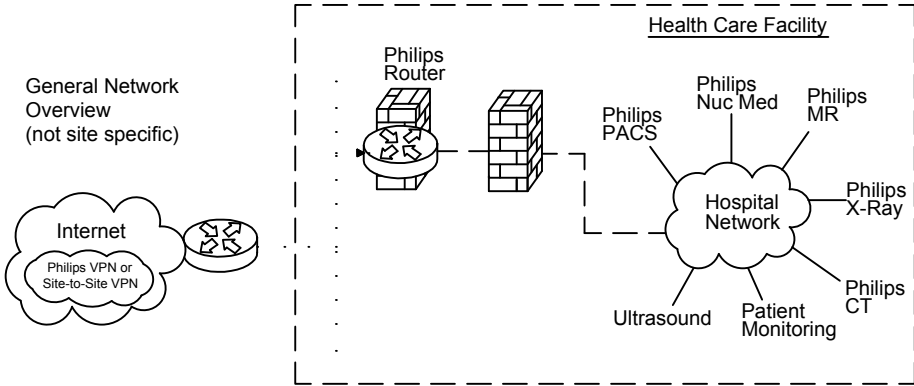


Action Required by Hospital:

- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.

Option 2: Back End Connected to the HCF Firewall Connectivity Method

This connectivity method is designed for customers who prefer a Philips RSN Router installed on site by setting up an IP-Based policy allowing access thru existing HCF Firewall to Philips equipment.

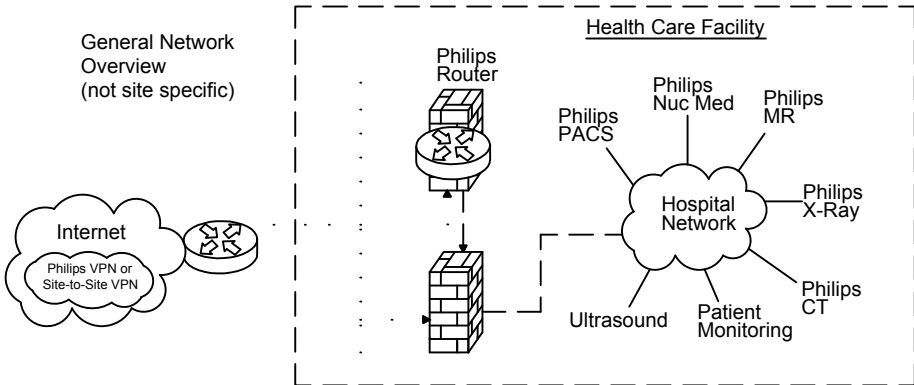


Action Required by Hospital:

- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.
- Configure and allow on the firewall on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

Option 3: Router Installed Inside the HCF's DZM

This connectivity method is designed for customers who prefer the RSN Router installed inside and existing, or new DMZ, allowing access to Philips equipment.



Action Required by Hospital:

- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.
- Configure and allow on the firewall on the DASHED line interface IPsec protocol communication by opening protocol 500, 50, 51, 47 and port 23 + TACACS. Traffic should be between external IP Address located on the Philips router and the RSN Data center IP address 192.68.48/24 and IP address AOSN TACAS.
- Configure and allow on the firewall on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

Project
Allura FD20 Ceiling

Philips Contacts
Project Manager: Freund, Michael
Contact Number: 303-589-5113
Email: michael.freund@philips.com

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N1

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